

CATALOGUE 2024-2025
OPTOELECTRONIC COMPONENTS

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EVERLIGHT

EVERLIGHT

One Source For Every Need

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan led by Chairman Robert Yeh. EVERLIGHT Electronics Co. has over 40 years of R&D experience for reliable capability. With immediate service and an excellent brand reputation, EVERLIGHT has taken top five in the competitive LED market. Our products are manufactured and packed in-house to guarantee maximum quality and service.

EVERLIGHT provides a diverse product portfolio consisting of High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Opto-couplers and Infrared Components for various applications. Today, EVERLIGHT is a global company with over 6,400 employees based in China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

For more information, please visit our website :

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CONDITIONS OF RoHS

From July 1st, 2006, RoHS requires that all electrical equipment should not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) or polybrominated diphenyl ethers (PBDEs), and the elements are restricted to certain amount (such as mercury in a wound lighting tube <5 mg, lead in CRT glass, soldering tin, etc.). Before the date every member of European Union must obey of environment, on chemical regulation.



- According to RoHS part, the name of restrict and limit used substance adopted by EVERLIGHT.

Name	Description	Criteria
Cadmium	Cadmium and its compounds must not be present in parts, components, materials or products. Cadmium and its compounds must not be used as stabilizers, coloring agent or as a surface coating treatment in parts, components, materials or products.	< 5 ppm (Plastics) < 75 ppm (Metal)
Lead restriction	Lead and/or lead compounds shall not be present in hardware components or parts, however, except solder electrical components and interconnect materials. Lead carbonates and sulfates must not be used in any paint applied to parts, component, or products.	< 100 ppm (Plastic) < 1000 ppm (Others)
Mercury restrictions:	Mercury must not be contained in any part, material, components or product, including, but not limited to switches, relays or electrical contacts. This restriction does not apply to lamps with less than 10 mg of mercury.	< 5 ppm
Hexavalent chromium (chromium VI) and hexavalent chromium compound	Hexavalent chromium (chromium VI) and hexavalent chromium compounds must not be present in parts, components, materials or products.	< 2 ppm
Polybrominated Biphenyls (PBBs)	Plastic parts, components, materials and products must not contain Polybrominated Biphenyls as flame retardants, specific PBBs, but are not limited to those listed in attachment item.	< 5 ppm
Polybrominated Diphenyl Ether (PBDEs)	Plastic parts, components, materials and products must not contain Polybrominated Diphenyl Ether, known as flame retardants, specific PBDEs, including, but are not limited to those listed in attachment item.	< 5 ppm

Compliant with the following condition :

- Please visit EVERLIGHT website for more updated information about third party test reports and RoHS declarations. [www.everlight.com]

APPLICATION NOTICE

Since we are continuously improving all of our products, the information listed in this Catalogue, which includes specifications, characteristics, data, materials used, structure, etc., are subject to change without prior notice. It is necessary that you request the newest specification sheet from EVERLIGHT when you place any inquiry or purchase order.

Please carefully read the specification sheet, and confirm your acceptance of this content. EVERLIGHT does not accept any liabilities for damages occurred due to the customer's lack of confirming the newest product specification.

It is important to strictly follow the maximum limit and other important instructions listed on the specifications sheet when using EVERLIGHT's products. The following is a list of special notes for products used in specific applications. It is recommended that customers read the instructions carefully before installing the products. Again, EVERLIGHT does not accept any liabilities for any improper use of EVERLIGHT's product or failure to follow the instructions listed herein.

Special Instruction:

1. Products listed in this Catalogue are designed primarily for the application listed below:
 - A: Calculators
 - B: Measurement equipment
 - C: AV machines
 - D: OA machines
 - E: Copier machines
 - F: Consumer electronics
 - G: Telecommunications

While products meet the application listed above, additional attention is required when products are to be utilized in the instruments listed under Special Instruction Notes 2 and 3.

2. When high reliability and safety concerns are required, it is very important that the design be made to focus on safety and long term reliability. Special care should be given to assure that EVERLIGHT's products integrate and function properly with all other parts of the instrument. Instruments fall into these categories include:

- A: Instruments attached to transportation tools (aircraft, train, automobile)
- B: Traffic light
- C: Gas leaking detectors and gas shutters
- D: Fire detectors
- E: Other safety detectors

3. When extremely high reliability and safety concerns are required, it is necessary that you contact EVERLIGHT for additional information before use. Instruments fall into these categories include:

- A: Aerospace instruments
- B: Telecommunication tools (main line)
- C: Nuclear weapon control
- D: Medical instruments

4. Should you have any additional questions, please contact EVERLIGHT for details.

本資料所記載之製品的規格、特性、DATA、使用原料、構造等，有時為了改良製品，無法事前通知，而進行與予變更。因此請務必使用最新的規格書，並請針對內容加以確認。若因未確認規格書，導致使用本製品之變態或其他應用產品發生損傷時，敝公司將不負此責任。

使用本資料所記載之製品時，請遵守規格書所記載之絕對最大定值，使用上之注意事項，以及下列之注意點。若因不遵守規格書所記載之絕對最大定值，使用上之注意事項，以及下述之注意點，而導致發生損害問題時，敝公司將不負此責任。

注意項目:

1. 本資料所記載之製品，原則上是為了下述之用途而製造出來的產品。
 - A: 電算機
 - B: OA機器
 - C: 通信機器
 - D: 計測機器
 - E: 工作機器
 - F: AV機器
 - G: 家電製品

當適合上述用途，但是屬於下述2或3所記載之儀器時，則需遵守個別產品之使用注意事項。

2. 若本資料所記載之製品用於下述講求高信頼性與安全性之用途時，因牽涉到機能與精度方面，為了維持連續供應的信頼性與安全性，請務必注重安全設計與長期性設計，並且需考慮整體機構的關係，依機器整體之安全設計來使用。

- A: 運送機器(飛機、火車、汽車)與控制安全性等相關之產品
- B: 交通信號機
- C: 瓦斯漏氣檢測相關機
- D: 防災裝置
- E: 各種安全裝置

3. 若本資料所記載之製品用於下述講求高信頼性與安全性之用途時，因牽涉到機能與精度方面，請事先與敝公司聯繫。

- A: 太空機器(航空機器)
- B: 通信機器(幹線)
- C: 原子彈控制機器
- D: 醫療機器

4. 涉及上述注意事項之任何一項時，如有疑問，請和敝公司業務人員聯絡。

TECHNICAL DATA

HIGH POWER LED (SHWO 燦, SHWO (N) 燦 (N))

CIE BINNING RANKS

Cool-White Bin Coordinates

		3000K			
Bin		3000-1	3000-2	3000-3	3000-4
CIE-X	0.344	0.336	0.337	0.345	
	0.345	0.337	0.337	0.344	
	0.353	0.345	0.344	0.353	
	0.355	0.346	0.345	0.353	
CIE-Y	0.363	0.362	0.349	0.358	
	0.354	0.349	0.337	0.343	
	0.362	0.358	0.345	0.349	
	0.374	0.369	0.356	0.367	

		2500K			
Bin		2500-1	2500-2	2500-3	2500-4
CIE-X	0.328	0.321	0.321	0.328	
	0.329	0.321	0.327	0.329	
	0.337	0.329	0.328	0.337	
	0.338	0.329	0.328	0.337	
CIE-Y	0.354	0.348	0.335	0.342	
	0.347	0.335	0.324	0.331	
	0.348	0.342	0.331	0.337	
	0.367	0.354	0.342	0.349	

		2000K			
Bin		2000-1	2000-2	2000-3	2000-4
CIE-X	0.312	0.303	0.305	0.312	
	0.313	0.305	0.307	0.315	
	0.321	0.313	0.315	0.327	
	0.321	0.312	0.311	0.321	
CIE-Y	0.333	0.330	0.321	0.328	
	0.324	0.311	0.311	0.319	
	0.337	0.329	0.318	0.328	
	0.348	0.339	0.328	0.337	

Warm-White Bin Coordinates

		1100K			
Bin		1100-1	1100-2	1100-3	1100-4
CIE-X	0.488	0.496	0.487	0.483	
	0.495	0.487	0.487	0.488	
	0.495	0.488	0.488	0.483	
	0.481	0.489	0.489	0.480	
CIE-Y	0.429	0.426	0.408	0.410	
	0.410	0.408	0.389	0.392	
	0.415	0.413	0.382	0.384	
	0.432	0.429	0.410	0.413	

		1000K			
Bin		1000-1	1000-2	1000-3	1000-4
CIE-X	0.483	0.480	0.483	0.483	
	0.485	0.472	0.475	0.478	
	0.487	0.485	0.486	0.482	
	0.478	0.481	0.481	0.477	
CIE-Y	0.421	0.417	0.399	0.403	
	0.403	0.399	0.381	0.385	
	0.405	0.403	0.385	0.389	
	0.426	0.421	0.403	0.408	

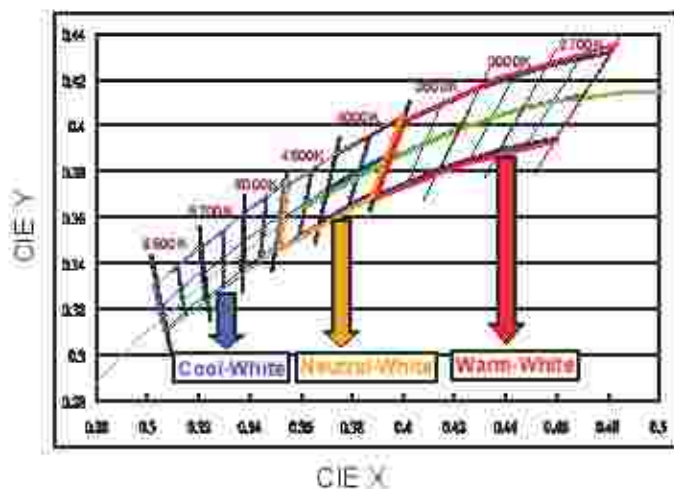
		700K			
Bin		700-1	700-2	700-3	700-4
CIE-X	0.418	0.400	0.384	0.408	
	0.408	0.394	0.389	0.403	
	0.425	0.400	0.403	0.418	
	0.437	0.415	0.408	0.422	
CIE-Y	0.408	0.400	0.388	0.393	
	0.392	0.385	0.369	0.375	
	0.395	0.389	0.375	0.381	
	0.417	0.400	0.392	0.399	

Natural-White Bin Coordinates

		5000K			
Bin		4900-1	4900-2	4900-3	4900-4
CIE-X	0.387	0.374	0.378	0.383	
	0.389	0.379	0.381	0.378	
	0.395	0.383	0.378	0.390	
	0.401	0.387	0.383	0.385	
CIE-Y	0.398	0.387	0.378	0.380	
	0.390	0.375	0.365	0.365	
	0.398	0.380	0.365	0.372	
	0.404	0.386	0.369	0.369	

		4500K			
Bin		4500-1	4500-2	4500-3	4500-4
CIE-X	0.364	0.355	0.352	0.362	
	0.362	0.353	0.351	0.359	
	0.370	0.362	0.358	0.367	
	0.374	0.364	0.362	0.373	
CIE-Y	0.381	0.374	0.369	0.369	
	0.366	0.360	0.347	0.352	
	0.374	0.366	0.352	0.358	
	0.387	0.381	0.366	0.373	

White Color Bin Structure



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TECHNICAL DATA

HIGH POWER LED (SHWO 燦 SHWO (N) 燦 (N))

BRIGHTNESS BINNING RANKS

Shwo

Brightness (lm)

Luminous Flux (lm)

Group	Ranking	Minimum Flux (lm)	Maximum Flux (lm)
E	1	4	5
	2	5	6
	3	6	7
	4	8	10
	5	10	13
	6	13	17
	7	17	23
	8	23	29
	9	29	37
F	1	27	33
	2	33	39
	3	39	45
	4	45	52
	5	52	60
	6	60	70
	7	70	80
	8	80	90
	9	90	100
J	1	100	110
	2	110	120
	3	120	130
	4	130	140
	5	140	150
	6	150	160
	7	160	180
	8	180	210
	9	210	225
K	1	225	250
	2	250	275
	3	275	300
	4	300	325
	5	325	350
	6	350	375
	7	375	400
	8	400	425
	9	425	450
N	1	450	475
	2	475	510
	3	510	525
	4	525	550

Shwo

Wavelength (nm)

Group	Ranking	Minimum Wavelength	Maximum Wavelength
		(nm)	(nm)
B Blue/ Royal Blue	1	430	435
	2	435	440
	3	440	445
	4	445	450
	5	450	455
	6	455	460
	7	460	465
	8	465	470
G Green	1	520	525
	2	525	530
	3	530	535
	4	535	540
	5	540	545
	6	545	550
A Amber	1	580	585.5
	2	582.5	585
	3	585	587.5
	4	587.5	590
	5	590	592.5
	6	592.5	595
R Red	1	610	615
	2	615	620
	3	620	625
	4	625	630
	5	630	635
	6	635	640
	7	640	645
D Deep Red	1	645	650
	2	650	655
	3	655	660
	4	660	665
	5	665	670
	6	670	675
	7	675	680
	8	680	685
F Far- Red	1	700	710
	2	710	715
	3	715	720
	4	720	725
	5	725	730
	6	730	735
	7	735	740
	8	740	745

HIGH POWER LED (SHWO 燦, SHWO (N) 燦 (N))

FORWARD VOLTAGE BINNING RANKS

Shwo

Forward Voltage Bins

Bin Rank	Bin	
A	U1+U2+U3	
B	U2+U3+U4	
C	V1+V2+V3	
D	V2+V3+V4	
E	V3+V4+V5	
F	V1+V2	
G	V1	
Bin	Minimum Forward Voltage (V)	Maximum Forward Voltage (V)
U1	1.75	2.05
U2	2.05	2.35
U3	2.35	2.65
U4	2.65	2.95
V1	2.95	3.25
V2	3.25	3.55
V3	3.55	3.85
V4	3.85	4.15
V5	4.15	4.45

TECHNICAL DATA

For Lighting Application Only

LOW MIDDLE POWER LED - SMD TYPE CIE BINNING RANKS

Cool-White Bin Coordinates

Bin	A	B	C	D	F	G
OE-X	0.3531	0.3494	0.3221	0.3553	0.3487	0.3487
	0.3494	0.3376	0.3260	0.3492	0.3425	0.3422
	0.3458	0.3271	0.3341	0.3577	0.3400	0.3408
	0.3480	0.3402	0.3498	0.3449	0.3487	0.3471
	0.3487	0.3404	0.3476	0.3461	-	-
OE-Y	0.3431	0.3494	0.3402	0.3515	-	-
	0.3494	0.3498	0.3483	0.3528	0.3428	0.3487
	0.3488	0.3416	0.3464	0.3593	0.3479	0.3433
	0.3404	0.3493	0.3428	0.3588	0.3433	0.3488
	0.3433	0.3533	0.3507	0.3507	0.3481	0.3530
	0.3480	0.3479	0.3483	0.3428	-	-
	0.3524	0.3494	0.3533	0.3487	-	-

Bin	A	B	C	D	F	G
OE-X	0.3325	0.3392	0.3255	0.3371	0.3325	0.3321
	0.3392	0.3307	0.3252	0.3321	0.3261	0.3262
	0.3393	0.3315	0.3286	0.3328	0.3262	0.3287
	0.3321	0.3362	0.3283	0.3293	0.3321	0.3320
	0.3321	0.3251	0.3282	0.3284	-	-
OE-Y	0.3371	0.3292	0.3282	0.3366	-	-
	0.3318	0.3304	0.3283	0.3483	0.3488	0.3447
	0.3338	0.3462	0.3343	0.3407	0.3436	0.3385
	0.3462	0.3302	0.3360	0.3487	0.3388	0.3398
	0.3493	0.3385	0.3377	0.3377	0.3447	0.3401
	0.3447	0.3408	0.3380	0.3380	-	-
	0.3493	0.3493	0.3493	0.3358	-	-

Bin	A	B	C	D	F	G
OE-X	0.3209	0.3117	0.3088	0.3213	0.3157	0.3157
	0.3117	0.3028	0.3068	0.3161	0.3089	0.3100
	0.3125	0.3088	0.3145	0.3166	0.3188	0.3190
	0.3157	0.3108	0.3136	0.3136	0.3161	0.3168
	0.3167	0.3093	0.3106	0.3148	-	-
OE-Y	0.3113	0.3124	0.3109	0.3221	-	-
	0.3481	0.3202	0.3269	0.3377	0.3385	0.3388
	0.3183	0.3184	0.3113	0.3326	0.3387	0.3378
	0.3338	0.3308	0.3182	0.3281	0.3328	0.3323
	0.3180	0.3254	0.3281	0.3281	0.3326	0.3284
	0.3300	0.3397	0.3302	0.3182	-	-
	0.3377	0.3328	0.3289	0.3261	-	-

Natural-White Bin Coordinates

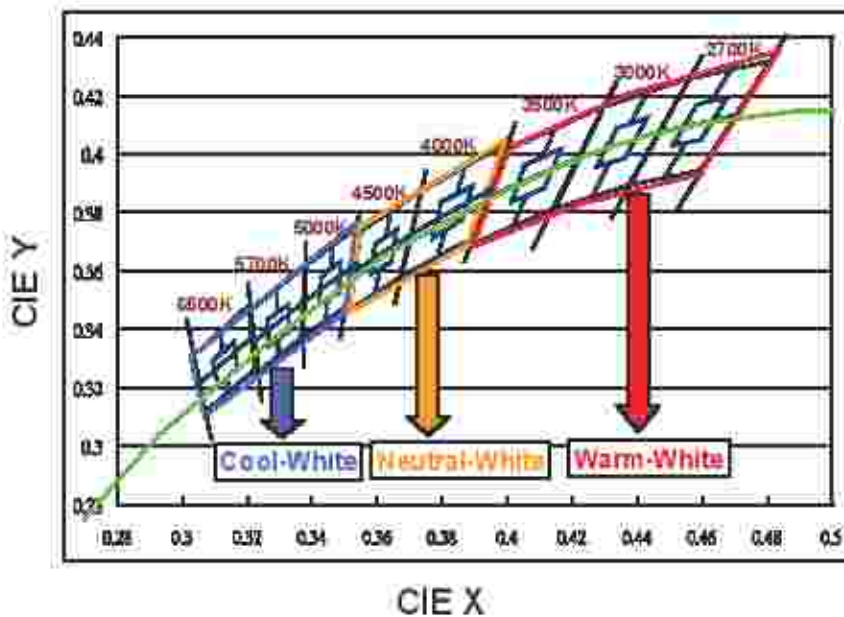
Bin	A	B	C	D	F	G
OE-X	0.4099	0.3871	0.3703	0.3952	0.3886	0.3882
	0.3871	0.3756	0.3673	0.3873	0.3793	0.3779
	0.3841	0.3702	0.3784	0.3854	0.3739	0.3764
	0.3893	0.3778	0.3810	0.3810	0.3823	0.3882
	0.3873	0.3793	0.3784	0.3784	-	-
OE-Y	0.3852	0.3812	0.3778	0.3888	-	-
	0.4044	0.3898	0.3728	0.3888	0.3882	0.3901
	0.3859	0.3874	0.3578	0.3841	0.3828	0.3773
	0.3888	0.3726	0.3647	0.3888	0.3723	0.3713
	0.3881	0.3773	0.3781	0.3741	0.3871	0.3768
	0.3831	0.3828	0.3713	0.3847	-	-
	0.3898	0.3858	0.3773	0.3716	-	-

Bin	A	B	C	D	F	G
OE-X	0.3728	0.3663	0.3550	0.3708	0.3688	0.3648
	0.3643	0.3549	0.3512	0.3648	0.3592	0.3584
	0.3628	0.3702	0.3681	0.3671	0.3594	0.3578
	0.3638	0.3584	0.3607	0.3657	0.3638	0.3637
	0.3648	0.3582	0.3520	0.3681	-	-
OE-Y	0.3703	0.3625	0.3584	0.3678	-	-
	0.3834	0.3801	0.3681	0.3730	0.3738	0.3688
	0.3699	0.3788	0.3683	0.3688	0.3688	0.3648
	0.3714	0.3681	0.3622	0.3650	0.3648	0.3688
	0.3738	0.3618	0.3628	0.3618	0.3688	0.3638
	0.3688	0.3688	0.3650	0.3622	-	-
	0.3728	0.3714	0.3640	0.3678	-	-

Warm-White Bin Coordinates:

4000K						
Bin	A	B	C	D	F	G
QE-X	0.4873	0.4382	0.4265	0.4090	0.4067	0.4437
	0.4587	0.4542	0.4373	0.4177	0.4176	0.4439
	0.4621	0.4455	0.4293	0.4098	0.4098	0.4502
	0.4647	0.4439	0.4344	0.4144	0.4127	0.4500
	0.4629	0.4438	0.4292	0.4093	-	-
0.4700	0.4621	0.4538	0.4393	-	-	
QE-Y	0.4378	0.4289	0.4071	0.4129	0.4190	0.4166
	0.4289	0.4260	0.3893	0.4128	0.4179	0.4200
	0.4199	0.4071	0.3918	0.4041	0.4088	0.4030
	0.4180	0.4089	0.4030	0.4030	0.4109	0.4041
	0.4199	0.4130	0.4039	0.4019	-	-
0.4135	0.4109	0.4089	0.4044	-	-	
4500K						
Bin	A	B	C	D	F	G
QE-X	0.4952	0.4438	0.4321	0.4145	0.4122	0.4506
	0.4730	0.4288	0.4147	0.4008	0.4028	0.4201
	0.4735	0.4221	0.4029	0.4055	0.4091	0.4287
	0.4430	0.4287	0.4311	0.4311	0.4388	0.4358
	0.4389	0.4328	0.4267	0.4219	-	-
0.4459	0.4375	0.4291	0.4273	-	-	
QE-Y	0.4360	0.4310	0.3994	0.4071	0.4133	0.4047
	0.4212	0.4162	0.3912	0.4043	0.4073	0.4011
	0.4036	0.3984	0.3853	0.3977	0.4011	0.3946
	0.4113	0.4011	0.3962	0.3942	0.4041	0.3972
	0.4040	0.4019	0.3948	0.3903	-	-
0.4071	0.4008	0.4011	0.3973	-	-	
5000K						
Bin	A	B	C	D	F	G
QE-X	0.4296	0.4148	0.3942	0.4021	0.4038	0.4134
	0.4149	0.3996	0.3899	0.4134	0.4037	0.4079
	0.4196	0.3943	0.4018	0.4138	0.4039	0.4090
	0.4159	0.4019	0.4057	0.4137	0.4131	0.4109
	0.4134	0.4051	0.4004	0.4118	-	-
0.4221	0.4106	0.4029	0.4147	-	-	
QE-Y	0.4153	0.4006	0.3898	0.3954	0.4007	0.3943
	0.4030	0.4019	0.3890	0.3943	0.4054	0.3993
	0.3881	0.3855	0.3757	0.3878	0.3909	0.3828
	0.4007	0.3953	0.3883	0.3913	0.3941	0.3879
	0.3943	0.3854	0.3829	0.3752	-	-
0.3894	0.3881	0.3883	0.3814	-	-	

White Color Bin Structure



Characteristic by specification defined by ANSI

TECHNICAL DATA

(For Lighting Application Only)

LOW MIDDLE POWER LED - SURFACE MOUNT PLCC TYPE LED BRIGHTNESS BINNING RANKS

Luminous Flux Bins
Unit: lm

Bin code	Range	
	Min	Max
D1	0.5	1.0
D2	1.0	1.5
D3	1.5	2.0
D4	2.0	2.5
D5	2.5	3.0
D6	3.0	3.5
D7	3.5	4.0
D8	4.0	4.5
D9	4.5	5.0
BA	5.0	5.5
B1	5.5	6.0
B2	6.0	6.5
B3	6.5	7.0
B4	7.0	7.5
B5	7.5	8.0
B6	8.0	8.5
B7	8.5	9.0
B8	9.0	9.5
B9	9.5	10.0
L1	10.0	11.0
L2	11.0	12.0
L3	12.0	13.0
L4	13.0	14.0
L5	14.0	15.0
L6	15.0	16.0
L7	16.0	17.0
L8	17.0	18.0
L9	18.0	19.0
M1	19.0	21.0
M2	21.0	24.0
N3	24.0	27.0
N4	27.0	33.0
P1	33.0	39.0
P4	39.0	45.0
Q3	45.0	52.0
NB	32.0	36.0
PA	38.0	40.0
PE	40.0	45.0
QA	45.0	50.0
R1	50.0	55.0
R2	55.0	60.0
R3	60.0	65.0
R4	65.0	70.0
R5	70.0	75.0
R6	75.0	83.0
H7	83.0	90.0
RE	90.0	100.0
S1	100.0	110.0
S2	110.0	120.0
S3	120.0	130.0
S4	130.0	140.0
S4	140.0	150.0
S6	150.0	160.0
S7	160.0	170.0

Vf Group Bin Code
Unit: V

Forward Voltage Group	Bin	Min	Max
B1	B1C	2.80	2.90
	B1D	2.90	3.00
	B1E	3.00	3.10
	B1F	3.10	3.20
	B1G	3.20	3.30
	B1H	3.30	3.40
	B1I	3.40	3.50
	B1J	3.50	3.60

Forward Voltage Group	Bin	Min	Max
B2	B2A	5.6	5.7
	B2B	5.7	5.8
	B2C	5.8	5.9
	B2D	5.9	6.0
	B2E	6.0	6.1
	B2F	6.1	6.2
	B2G	6.2	6.3
	B2H	6.3	6.4
	B2I	6.4	6.5
	B2J	6.5	6.6
	B2K	6.6	6.7
	B2L	6.7	6.8
	B2M	6.8	6.9
	B2N	6.9	7.0

Forward Voltage Group	Bin	Min	Max
B100	B100A	8.4	8.7
	B100B	8.7	9.0
	B100C	9.0	9.3
	B100D	9.3	9.6
	B100E	9.6	9.9

SMD LED : SURFACE MOUNT CHIP LED (PCB TYPE)
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups

Unit : mcd

Q0: 0.25 ~ 0.45	Q1: 72.0 ~ 90.0
Q0: 0.45 ~ 0.70	Q2: 90.0 ~ 112
E0: 0.70 ~ 1.1	R1: 112 ~ 140
P0: 1.1 ~ 1.6	M2: 140 ~ 180
D0: 1.6 ~ 2.6	S1: 180 ~ 220
H0: 2.6 ~ 4.0	S2: 220 ~ 280
J0: 4.5 ~ 7.2	T1: 280 ~ 360
K0: 7.2 ~ 11.5	T2: 360 ~ 450
L1: 11.5 ~ 14.5	U1: 450 ~ 560
L2: 14.5 ~ 18.0	U2: 560 ~ 710
M1: 18.0 ~ 22.5	V0: 710 ~ 1120
M2: 22.5 ~ 28.5	W0: 1120 ~ 1800
N1: 28.5 ~ 36.0	X0: 1800 ~ 2850
N2: 36.0 ~ 45.0	Y0: 2850 ~ 4500
P1: 45.0 ~ 57.0	
P2: 57.0 ~ 72.0	

Note: The luminous intensity data did not include ±5% testing tolerance.

V_f (Forward Voltage Spec. Setup)

Unit : V

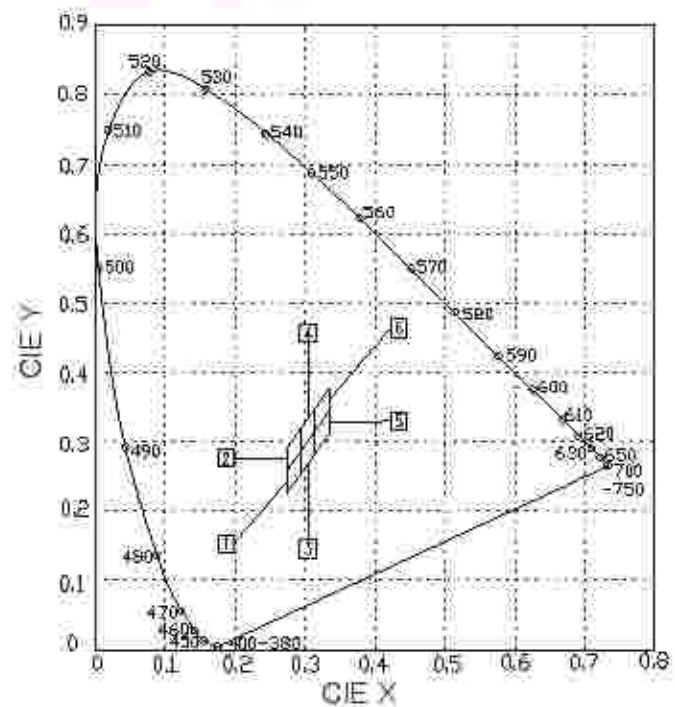
Forward voltage Group	Bin	min	Max
A	00	1.50	1.70
	0	1.70	1.90
	1	1.90	2.10
B	2	2.10	2.30
	3	2.30	2.50
C	4	2.50	2.70
	5	2.70	3.00
D	6	3.00	3.30
	7	3.30	3.50
E	8	3.50	3.80
	9	3.80	4.10
F	10	4.10	4.40
	11	4.40	4.70
G	12	4.70	5.00
	13	5.00	5.30
H	14	5.30	5.60
	15	5.60	5.90
I	16	5.90	6.20
	17	6.20	6.50
J	18	6.50	6.80
	19	6.80	7.10

Note: The forward voltage data did not include ±0.1V testing tolerance.

Bin Coordinate

Group	Bin Code	CIE X	CIE Y
A	1	0.274	0.208
		0.274	0.250
		0.284	0.288
		0.294	0.254
	2	0.274	0.250
		0.274	0.291
		0.284	0.319
		0.284	0.288
	3	0.294	0.254
		0.294	0.290
		0.314	0.315
		0.314	0.282
4	0.284	0.288	
	0.284	0.319	
	0.314	0.347	
	0.314	0.315	
5	0.314	0.282	
	0.314	0.315	
	0.334	0.349	
	0.334	0.311	
6	0.314	0.315	
	0.314	0.347	
	0.334	0.318	
	0.334	0.349	

Bin Structure (White Light)



TECHNICAL DATA

For Lighting Application Only

SMD LED : SURFACE MOUNT PLCC LED (REFLECTOR) / LOW POWER LED
BRIGHTNESS BIN SELECTION

Luminous Intensity Groups
Unit: mcd

Bin Code	Min	Max	Bin Code	Min	Max
D1	0.5	1.0	NE	32.0	36.0
D2	1.0	1.5	PA	36.0	40.0
D3	1.5	2.0	PB	40.0	45.0
D4	2.0	2.5	QA	45.0	50.0
D5	2.5	3.0	RA	50.0	55.0
D6	3.0	3.5	RB	55.0	60.0
D7	3.5	4.0	RC	60.0	65.0
D8	4.0	4.5	RD	65.0	70.0
D9	4.5	5.0	RE	70.0	75.0
DA	5.0	5.5	RF	75.0	80.0
DB	5.5	6.0	RG	80.0	85.0
DC	6.0	6.5	RH	85.0	90.0
DD	6.5	7.0	RA	90.0	95.0
DE	7.0	7.5	RB	95.0	100.0
DF	7.5	8.0	RC	100.0	110.0
EA	8.0	8.5	RD	110.0	120.0
EB	8.5	9.0	RE	120.0	130.0
EC	9.0	9.5	RF	130.0	140.0
ED	9.5	10.0	RG	140.0	150.0
EA	10.0	11.0	RH	150.0	160.0
EA	11.0	12.0	RA	160.0	170.0
EA	12.0	13.0	RB	170.0	180.0
EA	13.0	14.0	RC	180.0	190.0
EA	14.0	15.0	RD	190.0	200.0
EA	15.0	16.0	RE	200.0	210.0
EA	16.0	17.0	RF	210.0	220.0
EA	17.0	18.0	RG	220.0	230.0
EA	18.0	19.0	RA	230.0	240.0
EA	19.0	20.0	RB	240.0	250.0
EA	20.0	21.0	RC	250.0	260.0
EA	21.0	22.0	RD	260.0	270.0
EA	22.0	23.0	RE	270.0	280.0
EA	23.0	24.0	RF	280.0	290.0
EA	24.0	25.0	RG	290.0	300.0
EA	25.0	26.0	RA	300.0	320.0
EA	26.0	27.0	RB	320.0	350.0
EA	27.0	28.0	RC	350.0	400.0
EA	28.0	29.0	RD	400.0	450.0
EA	29.0	30.0	RE	450.0	500.0
EA	30.0	32.0	RF	500.0	550.0
EA	32.0	36.0	RG	550.0	600.0
EA	36.0	40.0	RA	600.0	650.0
EA	40.0	45.0	RB	650.0	700.0
EA	45.0	50.0	RC	700.0	750.0
EA	50.0	55.0	RD	750.0	800.0
EA	55.0	60.0	RE	800.0	850.0
EA	60.0	65.0	RF	850.0	900.0
EA	65.0	70.0	RG	900.0	950.0
EA	70.0	75.0	RA	950.0	1000.0
EA	75.0	80.0	RB	1000.0	1050.0
EA	80.0	85.0	RC	1050.0	1100.0
EA	85.0	90.0	RD	1100.0	1150.0
EA	90.0	95.0	RE	1150.0	1200.0
EA	95.0	100.0	RF	1200.0	1250.0
EA	100.0	105.0	RG	1250.0	1300.0
EA	105.0	110.0	RA	1300.0	1350.0
EA	110.0	115.0	RB	1350.0	1400.0
EA	115.0	120.0	RC	1400.0	1450.0
EA	120.0	125.0	RD	1450.0	1500.0
EA	125.0	130.0	RE	1500.0	1550.0
EA	130.0	135.0	RF	1550.0	1600.0
EA	135.0	140.0	RG	1600.0	1650.0
EA	140.0	145.0	RA	1650.0	1700.0
EA	145.0	150.0	RB	1700.0	1750.0
EA	150.0	155.0	RC	1750.0	1800.0
EA	155.0	160.0	RD	1800.0	1850.0
EA	160.0	165.0	RE	1850.0	1900.0
EA	165.0	170.0	RF	1900.0	1950.0
EA	170.0	175.0	RG	1950.0	2000.0
EA	175.0	180.0	RA	2000.0	2050.0
EA	180.0	185.0	RB	2050.0	2100.0
EA	185.0	190.0	RC	2100.0	2150.0
EA	190.0	195.0	RD	2150.0	2200.0
EA	195.0	200.0	RE	2200.0	2250.0
EA	200.0	205.0	RF	2250.0	2300.0
EA	205.0	210.0	RG	2300.0	2350.0
EA	210.0	215.0	RA	2350.0	2400.0
EA	215.0	220.0	RB	2400.0	2450.0
EA	220.0	225.0	RC	2450.0	2500.0
EA	225.0	230.0	RD	2500.0	2550.0
EA	230.0	235.0	RE	2550.0	2600.0
EA	235.0	240.0	RF	2600.0	2650.0
EA	240.0	245.0	RG	2650.0	2700.0
EA	245.0	250.0	RA	2700.0	2750.0
EA	250.0	255.0	RB	2750.0	2800.0
EA	255.0	260.0	RC	2800.0	2850.0
EA	260.0	265.0	RD	2850.0	2900.0
EA	265.0	270.0	RE	2900.0	2950.0
EA	270.0	275.0	RF	2950.0	3000.0
EA	275.0	280.0	RG	3000.0	3050.0
EA	280.0	285.0	RA	3050.0	3100.0
EA	285.0	290.0	RB	3100.0	3150.0
EA	290.0	295.0	RC	3150.0	3200.0
EA	295.0	300.0	RD	3200.0	3250.0
EA	300.0	305.0	RE	3250.0	3300.0
EA	305.0	310.0	RF	3300.0	3350.0
EA	310.0	315.0	RG	3350.0	3400.0
EA	315.0	320.0	RA	3400.0	3450.0
EA	320.0	325.0	RB	3450.0	3500.0
EA	325.0	330.0	RC	3500.0	3550.0
EA	330.0	335.0	RD	3550.0	3600.0
EA	335.0	340.0	RE	3600.0	3650.0
EA	340.0	345.0	RF	3650.0	3700.0
EA	345.0	350.0	RG	3700.0	3750.0
EA	350.0	355.0	RA	3750.0	3800.0
EA	355.0	360.0	RB	3800.0	3850.0
EA	360.0	365.0	RC	3850.0	3900.0
EA	365.0	370.0	RD	3900.0	3950.0
EA	370.0	375.0	RE	3950.0	4000.0
EA	375.0	380.0	RF	4000.0	4050.0
EA	380.0	385.0	RG	4050.0	4100.0
EA	385.0	390.0	RA	4100.0	4150.0
EA	390.0	395.0	RB	4150.0	4200.0
EA	395.0	400.0	RC	4200.0	4250.0
EA	400.0	405.0	RD	4250.0	4300.0
EA	405.0	410.0	RE	4300.0	4350.0
EA	410.0	415.0	RF	4350.0	4400.0
EA	415.0	420.0	RG	4400.0	4450.0
EA	420.0	425.0	RA	4450.0	4500.0
EA	425.0	430.0	RB	4500.0	4550.0
EA	430.0	435.0	RC	4550.0	4600.0
EA	435.0	440.0	RD	4600.0	4650.0
EA	440.0	445.0	RE	4650.0	4700.0
EA	445.0	450.0	RF	4700.0	4750.0
EA	450.0	455.0	RG	4750.0	4800.0
EA	455.0	460.0	RA	4800.0	4850.0
EA	460.0	465.0	RB	4850.0	4900.0
EA	465.0	470.0	RC	4900.0	4950.0
EA	470.0	475.0	RD	4950.0	5000.0
EA	475.0	480.0	RE	5000.0	5050.0
EA	480.0	485.0	RF	5050.0	5100.0
EA	485.0	490.0	RG	5100.0	5150.0
EA	490.0	495.0	RA	5150.0	5200.0
EA	495.0	500.0	RB	5200.0	5250.0
EA	500.0	505.0	RC	5250.0	5300.0
EA	505.0	510.0	RD	5300.0	5350.0
EA	510.0	515.0	RE	5350.0	5400.0
EA	515.0	520.0	RF	5400.0	5450.0
EA	520.0	525.0	RG	5450.0	5500.0
EA	525.0	530.0	RA	5500.0	5550.0
EA	530.0	535.0	RB	5550.0	5600.0
EA	535.0	540.0	RC	5600.0	5650.0
EA	540.0	545.0	RD	5650.0	5700.0
EA	545.0	550.0	RE	5700.0	5750.0
EA	550.0	555.0	RF	5750.0	5800.0
EA	555.0	560.0	RG	5800.0	5850.0
EA	560.0	565.0	RA	5850.0	5900.0
EA	565.0	570.0	RB	5900.0	5950.0
EA	570.0	575.0	RC	5950.0	6000.0
EA	575.0	580.0	RD	6000.0	6050.0
EA	580.0	585.0	RE	6050.0	6100.0
EA	585.0	590.0	RF	6100.0	6150.0
EA	590.0	595.0	RG	6150.0	6200.0
EA	595.0	600.0	RA	6200.0	6250.0
EA	600.0	605.0	RB	6250.0	6300.0
EA	605.0	610.0	RC	6300.0	6350.0
EA	610.0	615.0	RD	6350.0	6400.0
EA	615.0	620.0	RE	6400.0	6450.0
EA	620.0	625.0	RF	6450.0	6500.0
EA	625.0	630.0	RG	6500.0	6550.0
EA	630.0	635.0	RA	6550.0	6600.0
EA	635.0	640.0	RB	6600.0	6650.0
EA	640.0	645.0	RC	6650.0	6700.0
EA	645.0	650.0	RD	6700.0	6750.0
EA	650.0	655.0	RE	6750.0	6800.0
EA	655.0	660.0	RF	6800.0	6850.0
EA	660.0	665.0	RG	6850.0	6900.0
EA	665.0	670.0	RA	6900.0	6950.0
EA	670.0	675.0	RB	6950.0	7000.0
EA	675.0	680.0	RC	7000.0	7050.0
EA	680.0	685.0	RD	7050.0	7100.0
EA	685.0	690.0	RE	7100.0	7150.0
EA	690.0	695.0	RF	7150.0	7200.0
EA	695.0	700.0	RG	7200.0	7250.0
EA	700.0	705.0	RA	7250.0	7300.0
EA	705.0	710.0	RB	7300.0	7350.0
EA	710.0	715.0	RC	7350.0	7400.0
EA	715.0	720.0	RD	7400.0	7450.0
EA	720.0	725.0	RE	7450.0	7500.0
EA	725.0	730.0	RF	7500.0	7550.0
EA	730.0	735.0	RG	7550.0	7600.0
EA	735.0	740.0	RA	7600.0	7650.0
EA	740.0	745.0	RB	7650.0	7700.0
EA	745.0	750.0	RC	7700.0	7750.0
EA	750.0	755.0	RD	7750.0	7800.0
EA	755.0	760.0	RE	7800.0	7850.0
EA	760.0	765.0	RF	7850.0	7900.0
EA	765.0	770.0	RG	7900.0	7950.0
EA	770.0	775.0	RA	7950.0	8000.0
EA	775.0	780.0	RB	8000.0	8050.0
EA	780.0	785.0	RC	8050.0	8100.0
EA	785.0	790.0	RD	8100.0	8150.0
EA	790.0	795.0	RE	8150.0	8200.0
EA	795.0	800.0	RF	8200.0	8250.0
EA	800.0	805.0	RG	8250.0	8300.0
EA	805.0	810.0	RA	8300.0	8350.0
EA	810.0	815.0	RB	8350.0	8400.0
EA	815.0	820.0	RC	8400.0	8450.0
EA	820.0	825.0	RD	8450.0	8500.0
EA	825.0	830.0	RE	8500.0	8550.0
EA	830.0	835.0	RF	8550.0	8600.0
EA	835.0	840.0	RG	8600.0	8650.0
EA	840.0	845.0	RA	8650.0	8700.0
EA	845.0	850.0	RB	8700.0	8750.0
EA	850.0	855.0	RC	8750.0	8800.0
EA	855.0	860.0	RD	8800.0	8850.0
EA	860.0	865.0	RE	8850.0	8900.0
EA	865.0	870.0	RF	8900.0	8950.0
EA	870.0	875.0	RG	8950.0	9000.0
EA	875.0	880.0</			

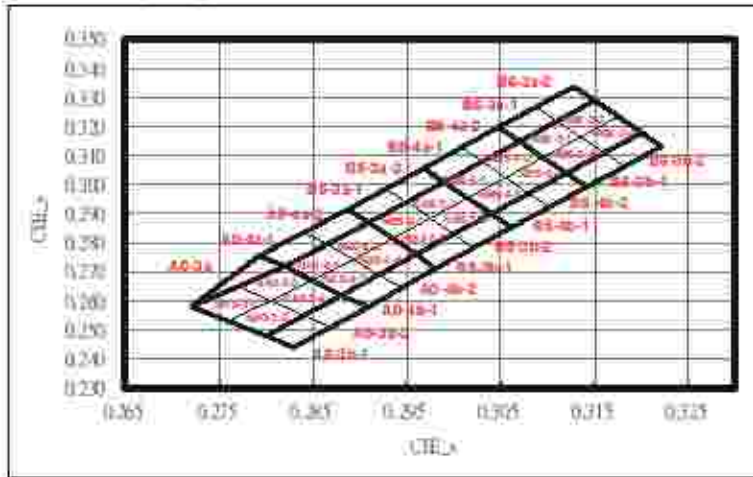
En Coordinates

PCT	En Code	En _x	En _y	En Code	En _x	En _y
5500K	55K-1	0.3305	0.3481	55K-3	0.3131	0.3290
		0.3117	0.3393		0.3048	0.3202
		0.3121	0.3290		0.3268	0.3113
		0.3213	0.3371		0.3145	0.3137
	55K-2	0.3117	0.3393	55K-4	0.3213	0.3371
		0.3028	0.3304		0.3131	0.3290
		0.3048	0.3299		0.3145	0.3187
		0.3131	0.3290		0.3221	0.3261
5700K	57K-1	0.3376	0.3616	57K-3	0.3293	0.3423
		0.3292	0.3533		0.3218	0.3353
		0.3293	0.3423		0.3222	0.3243
		0.3371	0.3493		0.3294	0.3306
	57K-2	0.3292	0.3533	57K-4	0.3371	0.3493
		0.3291	0.3462		0.3293	0.3423
		0.3215	0.3353		0.3294	0.3306
		0.3293	0.3423		0.3268	0.3306
6000K	60K-1	0.3581	0.3780	60K-3	0.3452	0.3558
		0.3484	0.3688		0.3371	0.3493
		0.3457	0.3559		0.3368	0.3368
		0.3533	0.3624		0.3441	0.3428
	60K-2	0.3484	0.3688	60K-4	0.3533	0.3624
		0.3376	0.3616		0.3462	0.3558
		0.3371	0.3493		0.3441	0.3428
		0.3452	0.3558		0.3518	0.3487
4000K	40K-1	0.4008	0.4044	40K-3	0.3828	0.3809
		0.3871	0.3959		0.3703	0.3726
		0.3828	0.3893		0.3870	0.3878
		0.3952	0.3980		0.3784	0.3847
	40K-2	0.3871	0.3959	40K-4	0.3952	0.3940
		0.3736	0.3874		0.3828	0.3809
		0.3703	0.3726		0.3784	0.3847
		0.3828	0.3893		0.3898	0.3716
3000K	30K-1	0.4262	0.4280	30K-3	0.4345	0.4023
		0.4431	0.4213		0.4223	0.3990
		0.4345	0.4033		0.4147	0.3814
		0.4488	0.4077		0.4260	0.3854
	30K-2	0.4431	0.4213	30K-4	0.4488	0.4077
		0.4299	0.4165		0.4345	0.4033
		0.4223	0.3980		0.4260	0.3854
		0.4345	0.4033		0.4373	0.3883
2700K	27K-1	0.4813	0.4313	27K-3	0.4585	0.4104
		0.4688	0.4290		0.4468	0.4077
		0.4585	0.4104		0.4373	0.3883
		0.4703	0.4133		0.4583	0.3918
	27K-2	0.4688	0.4290	27K-4	0.4703	0.4133
		0.4562	0.4250		0.4585	0.4104
		0.4458	0.4077		0.4482	0.3918
			0.4104			0.3944

TECHNICAL DATA

SMD LED (99 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinate

Bin Code	CE _x	CE _y	Bin Code	CE _x	CE _y	Bin Code	CE _x	CE _y	Bin Code	CE _x	CE _y
NA0-3-1	0.2760	0.2530	NA0-3-2	0.2905	0.2600	NA0-4-1	0.2850	0.2670	NA0-4-2	0.2880	0.2740
	0.2720	0.2580		0.2770	0.2650		0.2820	0.2720		0.2865	0.2795
	0.2770	0.2550		0.2820	0.2720		0.2885	0.2795		0.2910	0.2870
	0.2805	0.2500		0.2850	0.2670		0.2890	0.2740		0.2935	0.2815
NA0-3-2	0.2800	0.2480	NA0-3-4	0.2840	0.2550	NA0-4-3	0.2880	0.2620	NA0-4-4	0.2920	0.2690
	0.2760	0.2530		0.2905	0.2600		0.2950	0.2670		0.2960	0.2740
	0.2805	0.2580		0.2850	0.2570		0.2890	0.2740		0.2930	0.2815
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760
A0-30-1	0.2830	0.2440	A0-30-2	0.2870	0.2510	A0-40-1	0.2910	0.2580	A0-40-2	0.2545	0.2645
	0.2800	0.2480		0.2840	0.2550		0.2880	0.2620		0.2920	0.2590
	0.2840	0.2550		0.2880	0.2620		0.2920	0.2690		0.2960	0.2760
	0.2870	0.2510		0.2910	0.2580		0.2945	0.2645		0.2980	0.2710
A0-40-1	0.2820	0.2720	A0-40-2	0.2865	0.2795	B5-30-1	0.2910	0.2870	B5-30-2	0.2850	0.2940
	0.2790	0.2755		0.2840	0.2835		0.2880	0.2915		0.2920	0.2980
	0.2840	0.2835		0.2880	0.2815		0.2920	0.2980		0.2960	0.3050
	0.2885	0.2795		0.2910	0.2870		0.2950	0.2940		0.2990	0.3010
A0-30	0.2720	0.2580	A0-30	0.2740	0.2550	NB5-3-1	0.2835	0.2815	NB5-3-2	0.2975	0.2885
	0.2740	0.2550		0.2770	0.2570		0.2910	0.2970		0.2950	0.2940
	0.2820	0.2720		0.2850	0.2840		0.2950	0.2940		0.2990	0.3010
	0.2720	0.2580		0.2875	0.2885		0.2975	0.2885		0.3015	0.2955
NB5-3-3	0.2960	0.2760	NB5-3-4	0.3000	0.2890	B5-40-1	0.3052	0.2950	B5-40-2	0.3102	0.2920
	0.2935	0.2815		0.2975	0.2885		0.3040	0.2900		0.3080	0.2970
	0.2975	0.2885		0.3015	0.2955		0.3080	0.2970		0.3120	0.3040
	0.3000	0.2930		0.3040	0.2900		0.3102	0.2920		0.3142	0.2990
B5-30-1	0.2960	0.2710	B5-30-2	0.3021	0.2782	B5-30-1	0.3070	0.3150	B5-30-2	0.3110	0.3220
	0.2980	0.2760		0.3000	0.2830		0.3040	0.3190		0.3080	0.3260
	0.3000	0.2930		0.3040	0.2900		0.3080	0.3260		0.3120	0.3330
	0.3021	0.2782		0.3062	0.2850		0.3110	0.3220		0.3150	0.3290
B5-40-1	0.2990	0.3010	B5-40-2	0.3030	0.3080	NB5-3-1	0.3090	0.3085	NB5-3-2	0.3135	0.3165
	0.2980	0.3050		0.3008	0.3120		0.3070	0.3150		0.3110	0.3220
	0.3008	0.3120		0.3040	0.3190		0.3110	0.3220		0.3150	0.3290
	0.3030	0.3080		0.3070	0.3150		0.3150	0.3165		0.3175	0.3235
NB5-4-1	0.3015	0.2965	NB5-4-2	0.3055	0.3025	NB5-3-1	0.3120	0.3040	NB5-3-4	0.3160	0.3110
	0.2990	0.3010		0.3030	0.3080		0.3095	0.3095		0.3135	0.3165
	0.3030	0.3080		0.3070	0.3150		0.3130	0.3165		0.3175	0.3235
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180
NB5-4-2	0.3040	0.2990	NB5-4-4	0.3080	0.2970	B5-30-1	0.3142	0.2990	B5-30-2	0.3182	0.3050
	0.3015	0.2955		0.3025	0.3025		0.3120	0.3040		0.3160	0.3110
	0.3055	0.3025		0.3095	0.3095		0.3160	0.3110		0.3200	0.3180
	0.3080	0.2970		0.3120	0.3040		0.3182	0.3060		0.3220	0.3130

V_f (Forward Voltage Spec.) (Silikon)

(Unit: V)

Item	Unit: V	
	Min.	Max.
D26	2.60	2.70
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: ±0.05V

Luminous Flux

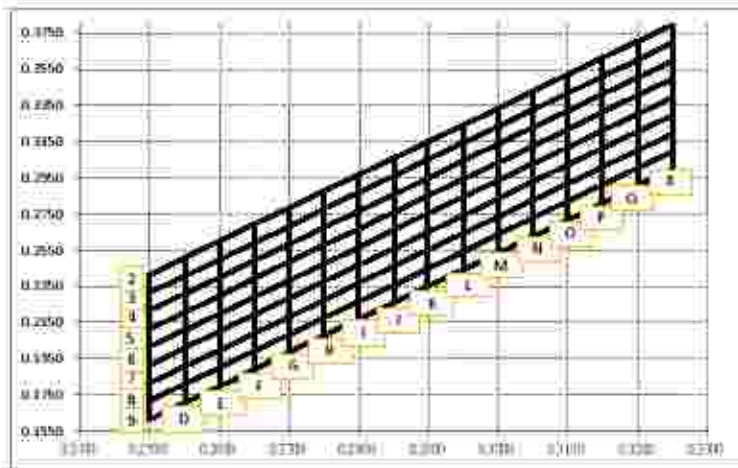
Item	Unit: lm		Unit: lm	
	Min.	Max.	Min.	Max.
B45	4.50	4.75	1605	1655
B47	4.75	5.00	1685	1735
B50	5.00	5.25	1765	1815
B52	5.25	5.50	1845	1895
B55	5.50	5.75	1925	2055
B57	5.75	6.00	2005	2145
B60	6.00	6.25	2145	2235
B62	6.25	6.50	2235	2325
B65	6.50	6.75	2325	2415
B67	6.75	7.00	2415	2505
B70	7.00	7.25	2505	2595
B72	7.25	7.50	2595	2685
B75	7.50	7.75	2685	2775
B77	7.75	8.00	2775	2865
B80	8.00	8.25	2865	2955
B82	8.25	8.50	2955	3045
B85	8.50	8.75	3045	3135
B87	8.75	9.00	3135	3225
B90	9.00	9.25	3225	3315
B92	9.25	9.50	3315	3405
B95	9.50	9.75	3405	3495
B97	9.75	10.00	3495	3585

Note: Tolerance of Luminous Flux: ±7%

TECHNICAL DATA

SMD LED (3003,3006 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin code of Chromaticity Coordinates

Bin	DE _x	DE _y	Bin	DE _x	DE _y	Bin	DE _x	DE _y	Bin	DE _x	DE _y	Bin	DE _x	DE _y
H2	0.3000	0.3234	O2	0.3050	0.3326	P2	0.3100	0.3418	Q2	0.3150	0.3510	R2	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H3	0.3000	0.3234	O3	0.3050	0.3326	P3	0.3100	0.3418	Q3	0.3150	0.3510	R3	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H4	0.3000	0.3234	O4	0.3050	0.3326	P4	0.3100	0.3418	Q4	0.3150	0.3510	R4	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H5	0.3000	0.3234	O5	0.3050	0.3326	P5	0.3100	0.3418	Q5	0.3150	0.3510	R5	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H6	0.3000	0.3234	O6	0.3050	0.3326	P6	0.3100	0.3418	Q6	0.3150	0.3510	R6	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H7	0.3000	0.3234	O7	0.3050	0.3326	P7	0.3100	0.3418	Q7	0.3150	0.3510	R7	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H8	0.3000	0.3234	O8	0.3050	0.3326	P8	0.3100	0.3418	Q8	0.3150	0.3510	R8	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			
H9	0.3000	0.3234	O9	0.3050	0.3326	P9	0.3100	0.3418	Q9	0.3150	0.3510	R9	0.3200	0.3602
	0.3050	0.3334		0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3694
	0.3100	0.3426		0.3150	0.3518		0.3200	0.3610		0.3250	0.3702		0.3786	
	0.3150	0.3518		0.3200	0.3702		0.3250	0.3786		0.3300	0.3878			

Luminous Flux

Bin	Unit: lm		Unit: lm	
	Min	Max	Min	Max
B45	4.50	4.70	1600	1690
B47	4.75	5.00	1665	1760
B50	5.00	5.25	1730	1835
B52	5.25	5.50	1795	1900
B55	5.50	5.75	1860	2000
B57	5.75	6.00	1925	2100
B60	6.00	6.25	2000	2200
B62	6.25	6.50	2065	2300
B65	6.50	6.75	2130	2410
B67	6.75	7.00	2200	2500
B70	7.00	7.25	2265	2590
B72	7.25	7.50	2330	2680
B75	7.50	7.75	2395	2770
B77	7.75	8.00	2460	2860
B80	8.00	8.25	2525	2950
B82	8.25	8.50	2590	3040
B85	8.50	8.75	2655	3130
B87	8.75	9.00	2720	3220
B90	9.00	9.25	2785	3310
B92	9.25	9.50	2850	3400
B95	9.50	9.75	2915	3490
B97	9.75	10.00	2980	3580

Note: Tolerance of Luminous Flux: ±7%

V_f (Forward Voltage Spec. Set@I)

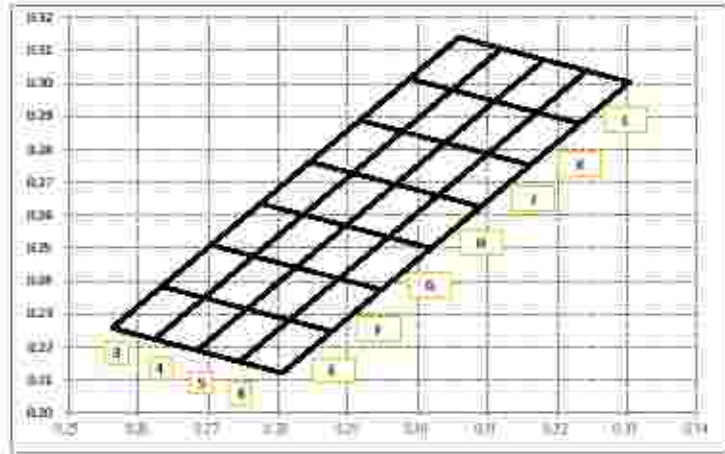
Bin	Unit: V	
	Min	Max
D26	2.90	3.10
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: ±0.05V.

TECHNICAL DATA

SMD LED (2604/3004 SERIES) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin code of Chromaticity Coordinates

Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y
E0	0.2755	0.2316	E1	0.2755	0.2316	E2	0.2654	0.2300	E3	0.2816	0.2282
	0.2684	0.2150		0.2684	0.2150		0.2623	0.2224		0.2745	0.2155
	0.2745	0.2156		0.2523	0.2224		0.2562	0.2208		0.2826	0.2123
	0.2816	0.2082		0.2694	0.2080		0.2433	0.2184		0.2877	0.2048
	0.2755	0.2316		0.2755	0.2316		0.2484	0.2350		0.2816	0.2282
F0	0.2826	0.2442	F1	0.2826	0.2442	F2	0.2755	0.2476	F3	0.2897	0.2428
	0.2755	0.2316		0.2755	0.2316		0.2694	0.2350		0.2916	0.2282
	0.2816	0.2282		0.2694	0.2250		0.2633	0.2384		0.2877	0.2348
	0.2897	0.2428		0.2755	0.2476		0.2704	0.2450		0.2948	0.2374
	0.2826	0.2442		0.2826	0.2442		0.2768	0.2476		0.2887	0.2408
G0	0.2897	0.2568	G1	0.2897	0.2568	G2	0.2836	0.2602	G3	0.2897	0.2534
	0.2826	0.2442		0.2826	0.2442		0.2755	0.2476		0.2887	0.2428
	0.2897	0.2428		0.2755	0.2476		0.2704	0.2450		0.2948	0.2374
	0.2836	0.2602		0.2836	0.2602		0.2775	0.2536		0.3019	0.2500
	0.2897	0.2568		0.2897	0.2568		0.2836	0.2602		0.2958	0.2534
H0	0.2897	0.2634	H1	0.2897	0.2634	H2	0.2807	0.2728	H3	0.3029	0.2650
	0.2897	0.2568		0.2897	0.2568		0.2826	0.2602		0.2958	0.2534
	0.2836	0.2602		0.2836	0.2602		0.2775	0.2536		0.3019	0.2500
	0.3029	0.2650		0.2907	0.2728		0.2848	0.2762		0.3080	0.2626
	0.2968	0.2594		0.2907	0.2728		0.2907	0.2728		0.3029	0.2650
J0	0.3029	0.2820	J1	0.3029	0.2820	J2	0.2978	0.2854	J3	0.3100	0.2786
	0.2968	0.2694		0.2968	0.2694		0.2907	0.2728		0.3029	0.2650
	0.3029	0.2650		0.2907	0.2728		0.2848	0.2762		0.3050	0.2626
	0.3100	0.2786		0.2978	0.2854		0.2917	0.2888		0.3151	0.2752
	0.3029	0.2820		0.3029	0.2820		0.2978	0.2854		0.3100	0.2786
K0	0.3110	0.2948	K1	0.3110	0.2948	K2	0.3149	0.2980	K3	0.3171	0.2912
	0.3029	0.2820		0.3029	0.2820		0.2978	0.2854		0.3100	0.2786
	0.3100	0.2786		0.2978	0.2854		0.2917	0.2888		0.3151	0.2752
	0.3171	0.2912		0.3049	0.2980		0.2958	0.3014		0.3232	0.2878
	0.3110	0.2948		0.3110	0.2948		0.3049	0.2980		0.3171	0.2912
L0	0.3181	0.3072	L1	0.3181	0.3072	L2	0.3120	0.3106	L3	0.3242	0.3038
	0.3110	0.2948		0.3110	0.2948		0.3049	0.2980		0.3171	0.2912
	0.3171	0.2912		0.3049	0.2980		0.2998	0.3014		0.3232	0.2878
	0.3042	0.3038		0.3120	0.3106		0.3059	0.3140		0.3303	0.3004
	0.3181	0.3072		0.3181	0.3072		0.3120	0.3106		0.3242	0.3038

Luminous Flux

Bin	Unit: lm		Unit: lmcd	
	Min	Max	Min	Max
B45	4.50	4.75	1605	1665
B47	4.75	5.00	1695	1765
B50	5.00	5.25	1785	1875
B52	5.25	5.50	1875	1965
B55	5.50	5.75	1965	2055
B57	5.75	6.00	2055	2145
B60	6.00	6.25	2145	2235
B62	6.25	6.50	2235	2325
B65	6.50	6.75	2325	2415
B67	6.75	7.00	2415	2505
B70	7.00	7.25	2505	2595
B72	7.25	7.50	2595	2685
B75	7.50	7.75	2685	2775
B77	7.75	8.00	2775	2865
B80	8.00	8.25	2865	2955
B82	8.25	8.50	2955	3045
B85	8.50	8.75	3045	3135
B87	8.75	9.00	3135	3225
B90	9.00	9.25	3225	3315
B92	9.25	9.50	3315	3405
B95	9.50	9.75	3405	3495
B97	9.75	10.00	3495	3585

Note: Tolerance of Luminous Flux: ±7%

V_f (Forward Voltage Spec. @I_{fm})

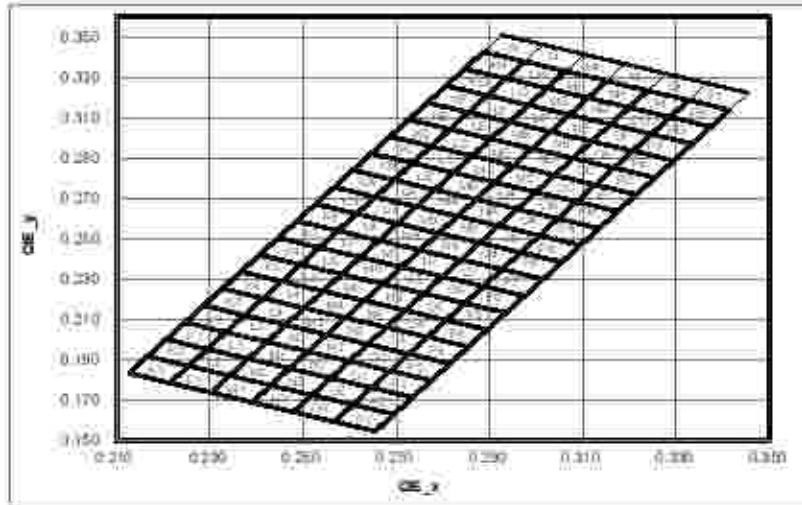
Bin	Unit: V	
	Min	Max
D05	2.60	2.70
D27	2.70	2.80
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D33	3.30	3.40
D34	3.40	3.50

Note: Tolerance of Forward Voltage: ±0.05V

TECHNICAL DATA

SMD LED (3030/50/62 SERIES) BRIGHTNESS BIN SELECTION

Colorimetry Diagram



Bin Code of Chromaticity Coordinates

Bin	CE _x	CE _y	Bin	CE _x	CE _y
VF	0.2161	0.1915	VQ	0.2381	0.1994
	0.2296	0.1967		0.2286	0.1961
	0.2315	0.1789		0.2385	0.1967
VE	0.2121	0.1831	VF	0.2161	0.1915
	0.2381	0.1728		0.2001	0.1899
	0.2001	0.1727		0.2001	0.2211
VF	0.2015	0.2040	VQ	0.2001	0.2127
	0.2321	0.2001		0.2381	0.1915
	0.2001	0.2307		0.2001	0.2311
VF	0.2343	0.2001	VQ	0.2381	0.2343
	0.2381	0.2325		0.2343	0.2001
	0.2015	0.2029		0.2001	0.2307
VF	0.2543	0.2128	VQ	0.2501	0.2301
	0.2015	0.2101		0.2015	0.2315
	0.2501	0.2107		0.2501	0.2101
VF	0.2501	0.2125	VQ	0.2501	0.2301
	0.2401	0.1721		0.2401	0.1895
	0.2578	0.1720		0.2501	0.1907
VF	0.2078	0.1428	VQ	0.2518	0.1721
	0.2301	0.1607		0.2401	0.1721
	0.2015	0.2001		0.2015	0.1715
VF	0.2118	0.2001	VQ	0.2118	0.2001
	0.2015	0.2001		0.2118	0.2001
	0.2015	0.2001		0.2015	0.2001
VF	0.2978	0.2501	VQ	0.2901	0.2001
	0.2001	0.2015		0.2001	0.2015
	0.2901	0.2001		0.2901	0.2015
VF	0.2001	0.2001	VQ	0.2001	0.2001
	0.2001	0.2001		0.2001	0.2001
	0.2001	0.2001		0.2001	0.2001

Bin Code of Chromaticity Coordinates

Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y
VF	0.2547	0.2001	VQ	0.2381	0.2161	VQ	0.2301	0.2001	VQ	0.2401	0.2001	VQ	0.2401	0.2001			
	0.2335	0.2001		0.2171	0.2118		0.2411	0.2001		0.2401	0.2001		0.2335	0.2001	0.2371	0.2001	
	0.2228	0.1991		0.2301	0.2001		0.2371	0.2118		0.2411	0.2001		0.2401	0.2001	0.2371	0.2001	
VF	0.2307	0.1998	VQ	0.2341	0.2001	VQ	0.2287	0.2101	VQ	0.2307	0.2001	VQ	0.2307	0.2001			
	0.2047	0.2040		0.2001	0.2047		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001
	0.2015	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001
VF	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001			
	0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001
	0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001
VF	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001	VQ	0.2001	0.2001			
	0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001
	0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001		0.2001	0.2001	0.2001	0.2001	0.2001

Bin-Center of Chromatic by Coordinates

Bin	OE _x	OE _y	Bin	OE _x	OE _y	Bin	OE _x	OE _y	Bin	OE _x	OE _y	Bin	OE _x	OE _y	Bin	OE _x	OE _y		
H8	0.2917	0.2611	H9	0.2967	0.2136	HA	0.2967	0.2889	H8	0.2647	0.2928	HC	0.2987	0.2887	HD	0.2727	0.2981		
	0.2618	0.2923		0.2635	0.2701		0.2695	0.2791		0.2738	0.2676		0.2775	0.2865		0.2775	0.2865	0.2615	0.2643
	0.2674	0.2838		0.2618	0.2639		0.2655	0.2382		0.2636	0.2791		0.2733	0.2819		0.2775	0.2819	0.2775	0.2838
0.2697	0.2887	0.2927	0.2671	0.2967	0.2787	0.2755	0.2687	0.2698	0.2647	0.2972	0.2647	0.2972	0.2687	0.2927					
L3	0.3418	0.2969	M4	0.2485	0.2281	L5	0.2485	0.2371	L6	0.2638	0.2635	L7	0.2575	0.2539	L8	0.2615	0.2623		
	0.2803	0.2185		0.2640	0.2238		0.2389	0.2389		0.2629	0.2611		0.2603	0.2349		0.2603	0.2339	0.2579	
	0.2463	0.2671		0.2598	0.2136		0.2548	0.2239		0.2589	0.2329		0.2623	0.2461		0.2623	0.2461	0.2684	0.2481
0.2725	0.2188	0.2415	0.2203	0.2485	0.2087	0.2485	0.2071	0.2485	0.2071	0.2515	0.2485	0.2515	0.2485	0.2515					
L1	0.3018	0.3083	M2	0.2340	0.1818	M3	0.2340	0.1903	M4	0.2429	0.1891	M5	0.2493	0.2011	M6	0.2503	0.2155		
	0.2103	0.2415		0.2431	0.1771		0.2471	0.1885		0.2511	0.1939		0.2551	0.2023		0.2591	0.2187		
	0.2663	0.2831		0.2381	0.1687		0.2401	0.1777		0.2471	0.1885		0.2511	0.1939		0.2551	0.2023	0.2591	0.2187
0.2674	0.2878	0.2309	0.1736	0.2341	0.1818	0.2389	0.1863	0.2429	0.1903	0.2469	0.1987	0.2489	0.2071						
M0	0.2903	0.2995	M1	0.2540	0.2079	M2	0.2540	0.2163	M3	0.2629	0.2047	M4	0.2663	0.2331	M5	0.2703	0.2415		
	0.2591	0.2847		0.2631	0.2031		0.2671	0.2115		0.2711	0.2189		0.2751	0.2283		0.2791	0.2367		
	0.2861	0.2863		0.2591	0.2041		0.2631	0.2031		0.2671	0.2115		0.2711	0.2189		0.2751	0.2283		
0.2863	0.2811	0.2593	0.2098	0.2618	0.2079	0.2663	0.2153	0.2703	0.2189	0.2743	0.2283	0.2811							
H4	0.2781	0.2827	H5	0.2831	0.2811	H6	0.2871	0.2685	H7	0.2811	0.2738	H8	0.2851	0.2883	H9	0.2891	0.2847		
	0.2678	0.2678		0.2818	0.2563		0.2868	0.2647		0.2898	0.2721		0.2938	0.2815		0.2879	0.2859		
	0.2838	0.2893		0.2979	0.2678		0.2918	0.2583		0.2871	0.2685		0.2909	0.2647		0.2891	0.2721	0.2815	
0.2731	0.2643	0.2791	0.2537	0.2851	0.2611	0.2871	0.2685	0.2911	0.2685	0.2911	0.2778	0.2851							
O3	0.2679	0.2659	O4	0.2718	0.2143	O5	0.2758	0.2207	O6	0.2798	0.2311	O7	0.2838	0.2395	O8	0.2879	0.2479		
	0.2767	0.2071		0.2807	0.2088		0.2847	0.2178		0.2887	0.2293		0.2927	0.2347		0.2967	0.2431		
	0.2737	0.1937		0.2767	0.2011		0.2807	0.2088		0.2847	0.2178		0.2887	0.2293		0.2927	0.2347		
0.2639	0.1878	0.2679	0.2068	0.2718	0.2143	0.2758	0.2207	0.2798	0.2311	0.2838	0.2395	0.2879							
O1	0.2778	0.2318	O2	0.2607	0.1827	O3	0.2647	0.1739	O4	0.2687	0.1848	O5	0.2727	0.1912	O6	0.2767	0.2011		
	0.2867	0.2271		0.2489	0.1627		0.2718	0.1711		0.2758	0.1785		0.2798	0.1879		0.2838	0.1963		
	0.2937	0.2187		0.2668	0.1643		0.2687	0.1827		0.2728	0.1771		0.2768	0.1855		0.2808	0.1939		
0.2939	0.2235	0.2567	0.1891	0.2607	0.1878	0.2647	0.1878	0.2687	0.1943	0.2727	0.1983	0.2777							
F3	0.3167	0.2651	F4	0.3201	0.2535	F5	0.3247	0.2619	F6	0.3287	0.2703	F7	0.3327	0.2787	F8	0.3367	0.2871		
	0.3293	0.2863		0.3296	0.2881		0.3335	0.2855		0.3375	0.2939		0.3415	0.3153		0.3455	0.3237		
	0.3218	0.2718		0.3258	0.2807		0.3298	0.2881		0.3338	0.2971		0.3378	0.3055		0.3418	0.3139		
0.3127	0.2787	0.3167	0.2837	0.3201	0.2893	0.3247	0.2918	0.3287	0.3018	0.3327	0.3103	0.3367							

Luminous Flux

Bin	Unit: lm		Bin	Unit: lm		Bin	Unit: lm	
	Min	Max		Min	Max		Min	Max
H85	85	90	D10	10	11	E20	20	22
H90	90	95	D11	11	12	E22	22	24
H95	95	100	D12	12	13	E24	24	26
H100	100	108	D13	13	14	E26	26	28
H105	105	110	D14	14	15	E28	28	30
H110	110	115	D15	15	16	E30	30	32
H115	115	125	D16	16	17	E32	32	34
H120	120	128	D17	17	18	E34	34	36
H125	125	135	D18	18	19	E36	36	38
H130	130	135	D19	19	20	E38	38	40
H135	135	145	D20	20	21	E40	40	42
H140	140	148	D21	21	22	E42	42	44
H145	145	150	D22	22	23	E44	44	46
H150	150	155	D23	23	24	E46	46	48
H155	155	160	D24	24	25	E48	48	50
H160	160	168	D25	25	26	E50	50	52
H165	165	170	D26	26	27	E52	52	54
H170	170	175	D27	27	28	E54	54	56
H175	175	180	D28	28	29	E56	56	58
H180	180	185	D29	29	30	E58	58	60
H185	185	190	D30	30	31	E60	60	62
H190	190	195	D31	31	32	E62	62	64
H195	195	200	-	-	-	-	-	-

Note: Tolerance of Luminous Intensity: ±7%

V_f Forward Voltage-Spec. Setup

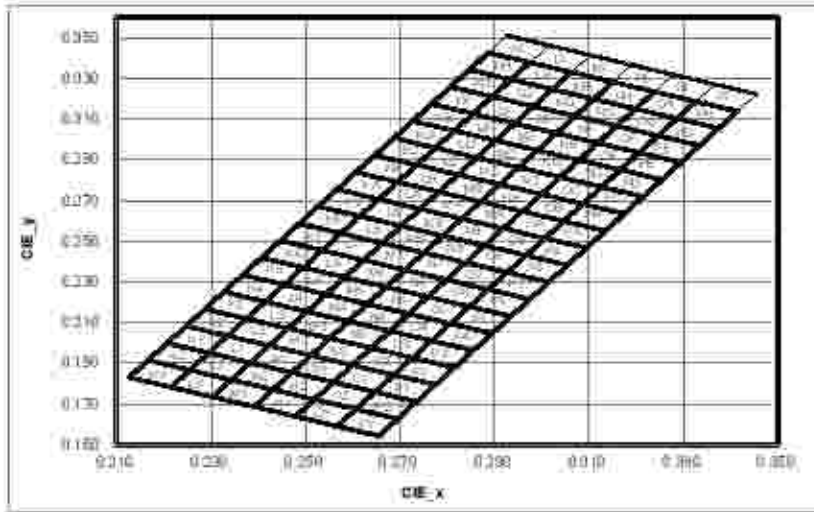
Bin	Unit: V	
	Min	Max
E08	2.8	3
E30	3	3.2
E32	3.2	3.4
E34	3.4	3.6
E36	3.6	3.8
E38	3.8	4.0
O28	2.8	2.8
O29	2.8	3
O30	3	3.1
O31	3.1	3.2
O32	3.2	3.3
O33	3.3	3.4
O34	3.4	3.5
O35	3.5	3.6

Note: Tolerance of Forward Voltage: ±2.00V

TECHNICAL DATA

SMD LED (Local Dimming) BRIGHTNESS BIN SELECTION

Chromaticity Diagram



Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K1	0.2187	0.1945	K2	0.2267	0.1909
	0.2285	0.1907		0.2295	0.1861
	0.2275	0.1789		0.2255	0.1867
	0.2127	0.1831		0.2187	0.1915
K2	0.2167	0.2175	K3	0.2097	0.2029
	0.2085	0.2127		0.2035	0.2211
	0.2015	0.2045		0.2055	0.2122
K3	0.2122	0.2091	L1	0.2152	0.2125
	0.2055	0.2107		0.2035	0.2191
	0.2042	0.2059		0.2082	0.2142
L1	0.2103	0.2525	L2	0.2142	0.2509
	0.2415	0.2523		0.2655	0.2197
	0.2542	0.2239		0.2582	0.2222
L2	0.2631	0.2191	M1	0.2571	0.2225
	0.2591	0.2107		0.2631	0.2191
	0.2592	0.2135		0.2542	0.2239
M1	0.2401	0.1731	M2	0.2471	0.1855
	0.2518	0.1723		0.2558	0.1897
	0.2478	0.1639		0.2518	0.1723
M2	0.2381	0.1607	N1	0.2421	0.1721
	0.2021	0.2031		0.2071	0.2118
	0.2115	0.2092		0.2158	0.2067
N1	0.2078	0.2089	N2	0.2118	0.2083
	0.2092	0.2047		0.2031	0.2032
	0.2018	0.2062		0.2058	0.2047
N2	0.2018	0.2062	O1	0.2058	0.2047
	0.2077	0.2018		0.2047	0.2029
	0.2067	0.2048		0.2012	0.2019
O1	0.2079	0.2479	O2	0.2018	0.2562
	0.2067	0.2088		0.2047	0.2129
	0.2485	0.2047		0.2518	0.2121
O2	0.2485	0.2047	P1	0.2095	0.2047
	0.2567	0.2047		0.2095	0.2047
	0.2567	0.2047		0.2095	0.2047

Bin Code of Chromaticity Coordinates

Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y	Bin	CIE_x	CIE_y
K1	0.2047	0.2063	K2	0.2281	0.2112	K3	0.2327	0.2291	K4	0.2367	0.2335	K5	0.2407	0.2419	K6	0.2447	0.2433
	0.2339	0.2095		0.2375	0.2118		0.2415	0.2283		0.2481	0.2321		0.2535	0.2458			
	0.2295	0.1957		0.2335	0.2055		0.2325	0.2115		0.2415	0.2283		0.2455	0.2371			
	0.2207	0.1898		0.2247	0.2083		0.2207	0.2167		0.2307	0.2291		0.2367	0.2355			
K2	0.2047	0.2342	0.2287	0.2427	0.2257	0.1967	0.2231	0.1951	0.2335	0.2026							
	0.2239	0.2295	0.2215	0.2372	0.2415	0.2042	0.2342	0.1816	0.2423	0.1987							
	0.2095	0.2021	0.2095	0.2395	0.2379	0.2305	0.1735	0.2342	0.1818								
K3	0.2097	0.2229	0.2287	0.2342	0.2218	0.1793	0.2239	0.1862	0.2395	0.1951							
	0.2135	0.2015	0.2175	0.2099	0.2085	0.2127	0.2095	0.2211	0.2295	0.2295							
	0.2023	0.2021	0.2063	0.2011	0.2043	0.2073	0.2093	0.2125	0.2093	0.2247							
L1	0.2163	0.2742	0.2023	0.2027	0.2063	0.2017	0.2043	0.2079	0.2083	0.2143							
	0.2026	0.2779	0.2135	0.2015	0.2175	0.2059	0.2042	0.2052	0.2095	0.2011							
	0.2023	0.2407	0.2063	0.2401	0.2103	0.2075	0.2163	0.2143	0.2083	0.2037							
L2	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2023	0.2821	0.2063	0.2096	0.2043	0.2073	0.2093	0.2125	0.2093	0.2247							
	0.2023	0.2742	0.2023	0.2027	0.2063	0.2017	0.2043	0.2079	0.2083	0.2143							
L3	0.2026	0.2779	0.2135	0.2015	0.2175	0.2059	0.2042	0.2052	0.2095	0.2011							
	0.2023	0.2407	0.2063	0.2401	0.2103	0.2075	0.2163	0.2143	0.2083	0.2037							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
M1	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
M2	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
M3	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
N1	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
N2	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
N3	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
O1	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
O2	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
O3	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
P1	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							
	0.2115	0.2815	0.2093	0.2099	0.2085	0.2127	0.2095	0.2211	0.2095	0.2295							

Bin Code of Chromaticity Coordinates

Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y	Bin	CE _x	CE _y		
H8	0.2427	0.2677	H8	0.2487	0.2755	H8	0.2607	0.2833	H8	0.2667	0.2911	H8	0.2727	0.2989		
	0.2615	0.2823		0.2690	0.2767		0.2820	0.2791		0.2850	0.2815		0.2875	0.2959	0.2812	0.2943
	0.2775	0.2938		0.2910	0.2927		0.2970	0.2791		0.2885	0.2791		0.2935	0.2975	0.2715	0.2969
L3	0.2487	0.2657	L3	0.2527	0.2627	L3	0.2567	0.2597	L3	0.2607	0.2567	L3	0.2647	0.2537		
	0.2415	0.2309		0.2480	0.2387		0.2480	0.2371		0.2550	0.2469		0.2575	0.2559	0.2612	0.2623
	0.2590	0.2170		0.2543	0.2289		0.2589	0.2293		0.2623	0.2491		0.2669	0.2491	0.2701	0.2573
L4	0.2443	0.2807	L4	0.2380	0.2355	L4	0.2543	0.2239	L4	0.2583	0.2323	L4	0.2623	0.2407		
	0.2375	0.2119		0.2415	0.2293		0.2450	0.2287		0.2480	0.2371		0.2533	0.2455	0.2575	0.2559
	0.2615	0.2460		0.2443	0.1819		0.2590	0.1903		0.2623	0.1987		0.2669	0.2071	0.2701	0.2153
L5	0.2165	0.2415	L5	0.2415	0.1771	L5	0.2471	0.1855	L5	0.2511	0.1939	L5	0.2551	0.2023		
	0.2660	0.2331		0.2381	0.1887		0.2431	0.1771		0.2471	0.1855		0.2511	0.1939	0.2551	0.2023
	0.2875	0.2079		0.2300	0.1740		0.2343	0.1819		0.2383	0.1903		0.2423	0.1987	0.2463	0.2071
M3	0.2990	0.2990	M3	0.2943	0.2919	M3	0.2890	0.2890	M3	0.2820	0.2847	M3	0.2763	0.2831		
	0.2990	0.2943		0.2831	0.2823		0.2871	0.2815		0.2815	0.2779		0.2863	0.2803	0.2763	0.2815
	0.2990	0.2890		0.2881	0.2943		0.2901	0.2901		0.2851	0.2911		0.2851	0.2911	0.2851	0.2911
M4	0.2790	0.2790	M4	0.2790	0.2790	M4	0.2790	0.2790	M4	0.2790	0.2790	M4	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
N3	0.2790	0.2790	N3	0.2790	0.2790	N3	0.2790	0.2790	N3	0.2790	0.2790	N3	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
N4	0.2790	0.2790	N4	0.2790	0.2790	N4	0.2790	0.2790	N4	0.2790	0.2790	N4	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
O3	0.2790	0.2790	O3	0.2790	0.2790	O3	0.2790	0.2790	O3	0.2790	0.2790	O3	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
O4	0.2790	0.2790	O4	0.2790	0.2790	O4	0.2790	0.2790	O4	0.2790	0.2790	O4	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
P3	0.2790	0.2790	P3	0.2790	0.2790	P3	0.2790	0.2790	P3	0.2790	0.2790	P3	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
P4	0.2790	0.2790	P4	0.2790	0.2790	P4	0.2790	0.2790	P4	0.2790	0.2790	P4	0.2790	0.2790		
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790
	0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790		0.2790	0.2790	0.2790	0.2790

Luminous Flux

Bin	Unit: lm	
	Min	Max
C0	0.00	0.50
C5	0.50	1.00
C10	1.00	1.50
C15	1.50	2.00
C20	2.00	2.50
C25	2.50	3.00
C30	3.00	3.50
C35	3.50	4.00
C40	4.00	4.50
C45	4.50	5.00
C50	5.00	5.50
C55	5.50	6.00
C60	6.00	6.50
C65	6.50	7.00
C70	7.00	7.50
C75	7.50	8.00
C80	8.00	8.50

Note: Tolerance of Luminous Intensity: ±7%

Radiant Power

Bin	Unit: mW	
	Min	Max
E0	0.00	2.00
E2	2.00	4.00
E4	4.00	6.00
E6	6.00	8.00
E8	8.00	10.00
E10	10.00	12.00
E12	12.00	14.00
E14	14.00	16.00
E16	16.00	18.00
E18	18.00	20.00
E20	20.00	22.00
E22	22.00	24.00
E24	24.00	26.00
E26	26.00	28.00
E28	28.00	30.00

Note: Tolerance of Luminous Intensity: ±7%

V_f (Forward Voltage Spec. Setup)

Bin	Unit: V	
	Min	Max
D28	2.80	2.90
D29	2.90	3.00
D30	3.00	3.10
D31	3.10	3.20
D32	3.20	3.30
D370	2.70	2.75
D375	2.75	2.80
D380	2.80	2.85
D385	2.85	2.90
D390	2.90	2.95

Note: Tolerance of Forward Voltage: ±0.05

TECHNICAL DATA

LED LAMPS BRIGHTNESS BIN SELECTION

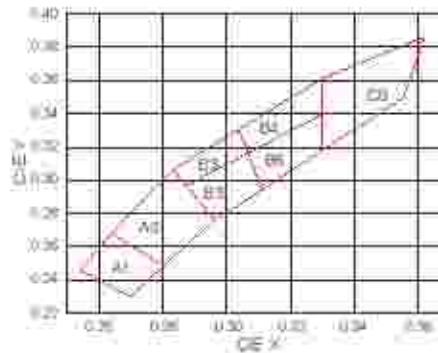
Brightness Bin Selection
Unit : mcd

Item	Intensity (x 1000)	
Bin Code	Min	Max
27	6.0	8.0
28	8.0	10.0
29	10.0	12.0
30	12.0	15.0
31	15.0	18.0
32	18.0	22.0
33	22.0	28.0
34	28.0	35.0
35	35.0	42.0
36	42.0	50.0
37	50.0	60.0
38	60.0	70.0
39	70.0	85.0
40	85.0	100
41	100	120
42	120	140
43	140	170
44	170	200
45	200	240
46	240	285
47	285	360
48	360	450
49	450	565
50	565	715
51	715	900
52	900	1,125
53	1,125	1,425
54	1,425	1,800
55	1,800	2,250
56	2,250	2,800
57	2,800	3,600
58	3,600	4,500
59	4,500	5,600
60	5,600	7,100
61	7,100	9,000
62	9,000	11,250
63	11,250	14,250
64	14,250	18,000
65	18,000	22,500
66	22,500	28,500
67	28,500	36,000

Cool White / CIE Chromaticity Diagram
 $I_f=20mA / T_a=25^{\circ}C$

Color Range	Bin	CIE			
		x	y	z	w
A1	X	0.255	0.254	0.280	0.270
	Y	0.245	0.267	0.248	0.230
A0	X	0.254	0.283	0.295	0.280
	Y	0.267	0.305	0.267	0.248
B3	X	0.293	0.304	0.307	0.287
	Y	0.305	0.300	0.315	0.295
B4	X	0.304	0.305	0.330	0.307
	Y	0.330	0.360	0.338	0.315
B5	X	0.287	0.307	0.311	0.285
	Y	0.295	0.315	0.294	0.276
B6	X	0.307	0.305	0.330	0.311
	Y	0.315	0.335	0.318	0.294
C0	X	0.330	0.351	0.355	0.330
	Y	0.350	0.385	0.350	0.318

Note: Measurement uncertainty of the color coordinates ± 0.01



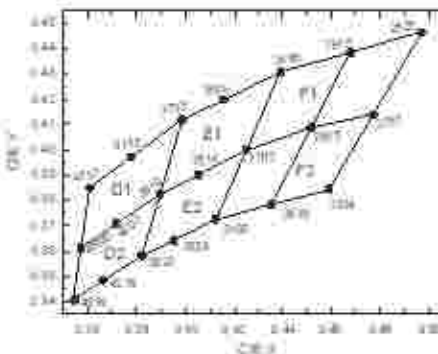
DIGITAL DISPLAY BRIGHTNESS BIN SELECTION

Bin Code	Brightness Range (unit)	
	Min	Max
G	70	140
D	110	220
E	180	360
F	280	560
G	450	900
H	750	1500
J	1050	1650
K	1400	2300
L	2000	3200
M	2800	4500
N	4000	6400
P	5600	8900
Q	7900	12500
R	11000	17500
S	15000	24000
T	21000	34000
U	30000	48000
V	42000	67000
W	59000	94000
X	83000	133000
Y	116000	186000
Z	158000	254000

Warm White / CIE Chromaticity Diagram
 $I_f=20mA / T_a=25^{\circ}C$

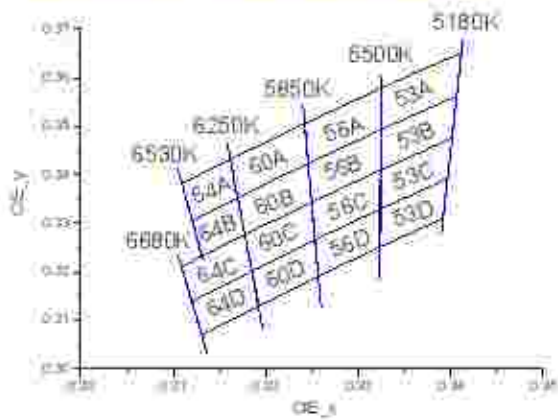
Color Range	Bin	CIE			
		x	y	z	w
D1	X	0.357	0.351	0.368	0.385
	Y	0.361	0.385	0.411	0.382
D2	X	0.354	0.357	0.389	0.382
	Y	0.340	0.361	0.392	0.356
E1	X	0.389	0.398	0.439	0.425
	Y	0.382	0.411	0.431	0.400
E2	X	0.382	0.389	0.425	0.412
	Y	0.375	0.362	0.400	0.372
F1	X	0.425	0.439	0.497	0.477
	Y	0.400	0.431	0.465	0.419
F2	X	0.412	0.425	0.477	0.458
	Y	0.372	0.400	0.473	0.385

Note: Measurement uncertainty of the color coordinates ± 0.01

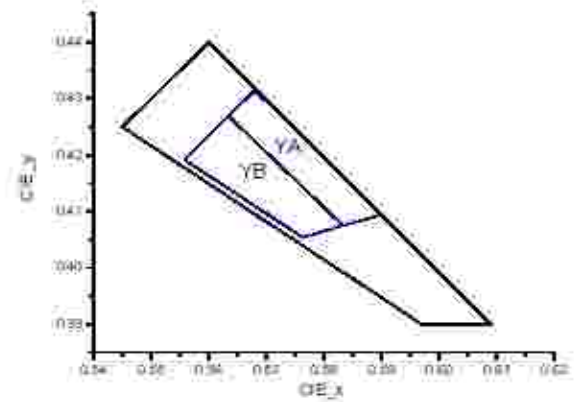


AUTOMOTIVE BIN SELECTION

Extra White / Cool-White Bin Structure



Amber Bin Structure



Cool-White Bin Coordinates

Bin	CIE X	CIE Y	Bin	CIE X	CIE Y	Bin	CIE X	CIE Y
64A	0.3108	0.3382	60C	0.3177	0.3277	53A	0.3328	0.3579
	0.3181	0.3432		0.3249	0.3344		0.3412	0.3652
	0.3185	0.3453		0.3253	0.3265		0.3405	0.3562
	0.3120	0.3306		0.3185	0.3209		0.3325	0.3499
Reference Range: 6240-6530K			Reference Range: 5850-6240K			Reference Range: 5180-5600K		
64B	0.3120	0.3306	60D	0.3185	0.3303	53B	0.3328	0.3483
	0.3188	0.3353		0.3263	0.3266		0.3408	0.3582
	0.3177	0.3277		0.3206	0.3181		0.3401	0.3476
	0.3131	0.3232		0.3192	0.3131		0.3328	0.3415
Reference Range: 6240-6530K			Reference Range: 5850-6240K			Reference Range: 5180-5600K		
64C	0.3108	0.3211	56A	0.3242	0.3505	53C	0.3328	0.3415
	0.3177	0.3277		0.3325	0.3579		0.3401	0.3476
	0.3185	0.3203		0.3325	0.3493		0.3388	0.3382
	0.3120	0.3139		0.3246	0.3424		0.3323	0.3329
Reference Range: 6240-6530K			Reference Range: 5500-5850K			Reference Range: 5180-5600K		
64D	0.3120	0.3109	56B	0.3246	0.3424	53D	0.3323	0.3329
	0.3185	0.3203		0.3325	0.3493		0.3388	0.3382
	0.3182	0.3131		0.3324	0.3410		0.3382	0.3310
	0.3131	0.3070		0.3249	0.3344		0.3323	0.3251
Reference Range: 6240-6530K			Reference Range: 5800-5850K			Reference Range: 5180-5600K		
60A	0.3181	0.3432	56C	0.3246	0.3544			
	0.3242	0.3506		0.3324	0.3410			
	0.3246	0.3424		0.3323	0.3329			
	0.3188	0.3353		0.3253	0.3266			
Reference Range: 5850-6240K			Reference Range: 5800-5850K					
60B	0.3188	0.3353	56D	0.3203	0.3266			
	0.3246	0.3424		0.3323	0.3329			
	0.3246	0.3344		0.3323	0.3251			
	0.3177	0.3277		0.3251	0.3181			
Reference Range: 5850-6240K			Reference Range: 5850-5850K					

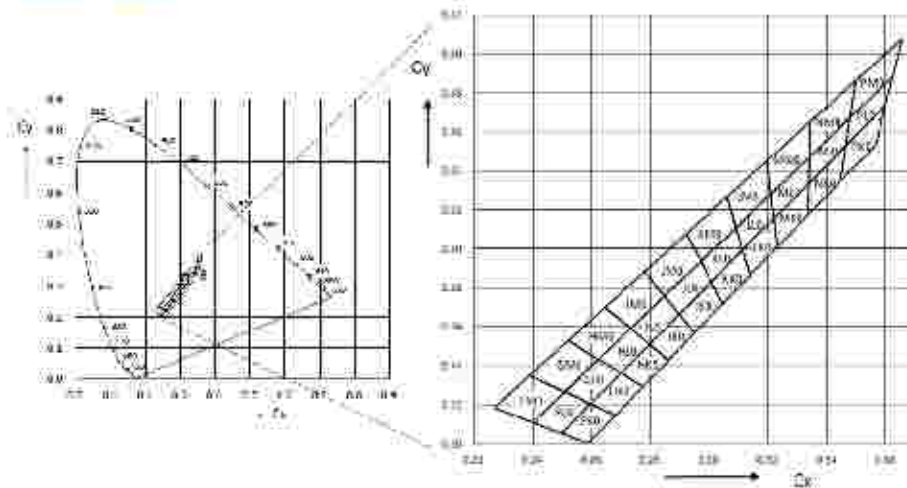
Amber Bin Coordinates

Bin	CIE X	CIE Y
YA	0.5660	0.4315
	0.5634	0.4288
	0.5833	0.4075
	0.5901	0.4034
YB	0.5753	0.4554
	0.5825	0.4075
	0.5634	0.4288
	0.5557	0.4192

TECHNICAL DATA

AUTOMOTIVE BIN SELECTION

Interior / White



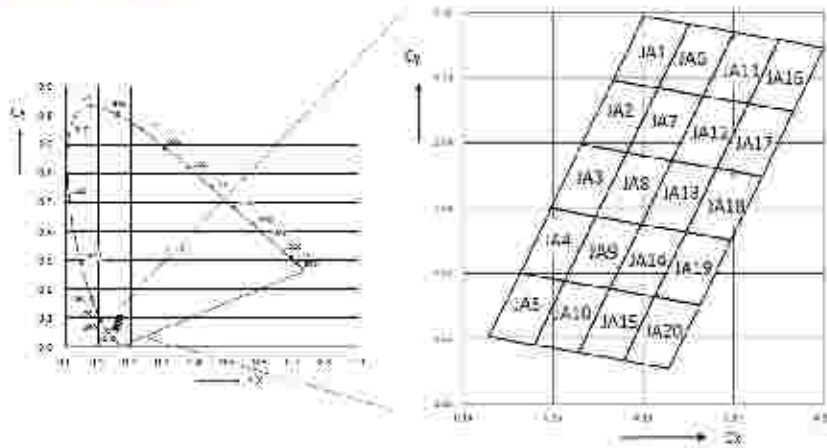
Bin Range of Chromaticity Coordinates Specifications

Bin Code	DIE X	DIE Y	Bin Code	DIE X	DIE Y	Bin Code	DIE X	DIE Y	Bin Code	DIE X	DIE Y
PKO	0.2588	0.2000	NKO	0.3130	0.3306	LLO	0.3113	0.2992	JMO	0.2848	0.2757
	0.2498	0.2093		0.3135	0.3172		0.3040	0.3108		0.2780	0.2883
	0.2597	0.2204		0.3447	0.3347		0.3219	0.3281		0.2922	0.3077
	0.2680	0.2146		0.3465	0.3533		0.3219	0.3153		0.2971	0.2935
GKD	0.2662	0.2146	PKO	0.3465	0.3630	MLD	0.3341	0.0472	KMO	0.2971	0.2935
	0.2597	0.2204		0.3437	0.3347		0.3209	0.0281		0.2922	0.3077
	0.2700	0.2381		0.3567	0.3635		0.3219	0.0154		0.3060	0.3265
	0.2775	0.2282		0.3589	0.3735		0.3319	0.0538		0.3080	0.3108
HKD	0.2775	0.2282	PLD	0.2488	0.2053	NLD	0.3341	0.3472	LMO	0.3090	0.3108
	0.2700	0.2381		0.2402	0.2108		0.3389	0.3336		0.3060	0.3266
	0.2797	0.2509		0.2509	0.2264		0.3465	0.3530		0.3196	0.3401
	0.2851	0.2427		0.2597	0.2204		0.3479	0.3673		0.3208	0.3281
IWG	0.2851	0.2427	GLD	0.2597	0.2204	PLD	0.3479	0.3673	NMO	0.3345	0.3654
	0.2797	0.2509		0.2609	0.2264		0.3465	0.3630		0.3196	0.3401
	0.2898	0.2664		0.2634	0.2481		0.3589	0.3735		0.3208	0.3281
	0.2950	0.2568		0.2700	0.2381		0.3623	0.3882		0.3341	0.3472
JWD	0.2950	0.2568	PLD	0.2780	0.2381	FMD	0.2389	0.0348	KMO	0.2945	0.3054
	0.2838	0.2594		0.2824	0.2431		0.2269	0.2185		0.3347	0.3472
	0.3007	0.2930		0.2733	0.2580		0.2402	0.2108		0.3479	0.3673
	0.3045	0.2717		0.2797	0.2509		0.2509	0.2254		0.3498	0.3883
KYC	0.3045	0.2717	ILD	0.2797	0.2509	GMD	0.2509	0.2254	FMO	0.3498	0.3883
	0.3007	0.2830		0.2733	0.2580		0.2388	0.2349		0.3479	0.3673
	0.3113	0.2992		0.2848	0.2707		0.2520	0.2827		0.3623	0.3882
	0.3185	0.2842		0.2888	0.2854		0.2824	0.2431		0.3655	0.4078
LKS	0.3185	0.2842	JLD	0.2888	0.2854	HMD	0.2824	0.2431	IMO	0.2824	0.2431
	0.3113	0.2992		0.2848	0.2707		0.2530	0.2527		0.2845	0.2700
	0.3219	0.3154		0.2971	0.2935		0.2845	0.2700		0.2733	0.2580
	0.3231	0.3008		0.3007	0.2883		0.2733	0.2580		0.2733	0.2580
MKO	0.3338	0.3335	KLD	0.3007	0.2883	IMO	0.2733	0.2580		0.2733	0.2580
	0.3218	0.3154		0.2971	0.2935		0.2845	0.2700		0.2733	0.2580
	0.3231	0.3008		0.3080	0.3108		0.2780	0.2883		0.2780	0.2883
	0.3335	0.3172		0.3113	0.2992		0.2848	0.2757		0.2848	0.2757

Notes: Tolerance of Chromaticity Coordinates: ±0.01

AUTOMOTIVE BIN SELECTION

Interior / Sky Blue

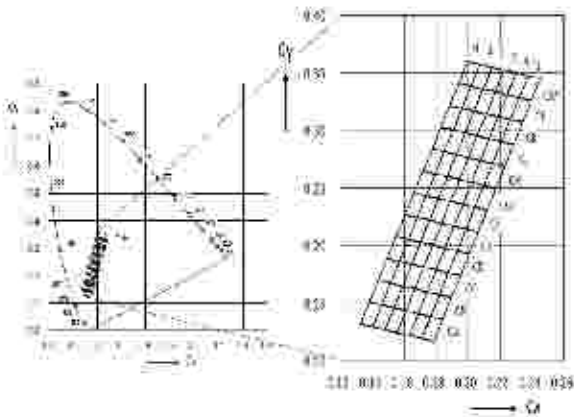


Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y	Bin Code	CIE X	CIE Y
JA1	0.1620	0.1094	JA9	0.1647	0.0787	JA17	0.1715	0.0946
	0.1655	0.1042		0.1697	0.0775		0.1766	0.0848
	0.1616	0.1084		0.1662	0.0676		0.1731	0.0809
	0.1666	0.1096		0.1612	0.0698		0.1691	0.0861
JA2	0.1656	0.0998	JA10	0.1612	0.0688	JA18	0.1731	0.0848
	0.1616	0.0984		0.1662	0.0676		0.1697	0.0781
	0.1691	0.0985		0.1628	0.0678		0.1647	0.0769
JA3	0.1631	0.0997	JA11	0.1678	0.0690	JA19	0.1647	0.0783
	0.1681	0.0885		0.1709	0.1070		0.1697	0.0781
	0.1647	0.0797		0.1750	0.1058		0.1662	0.0682
JA4	0.1497	0.0798	JA12	0.1666	0.0972	JA25	0.1612	0.0664
	0.1497	0.0798		0.1658	0.0972		0.1662	0.0682
	0.1547	0.0787		0.1718	0.0965		0.1628	0.0584
JA5	0.1512	0.0688	JA13	0.1681	0.0861	JA26	0.1628	0.0584
	0.1483	0.0700		0.1681	0.0873		0.1578	0.0586
	0.1463	0.0700		0.1631	0.0973			
JA6	0.1612	0.0698	JA14	0.1681	0.0961			
	0.1679	0.0690		0.1647	0.0769			
	0.1428	0.0682		0.1597	0.0775			
JA7	0.1650	0.1062	JA15	0.1597	0.0775			
	0.1731	0.1070		0.1647	0.0763			
	0.1686	0.0672		0.1612	0.0664			
JA8	0.1616	0.0984	JA16	0.1662	0.0676			
	0.1616	0.0984		0.1662	0.0676			
	0.1656	0.0972		0.1612	0.0664			
JA9	0.1666	0.0972	JA17	0.1662	0.0676			
	0.1631	0.0973		0.1612	0.0664			
	0.1681	0.0885		0.1578	0.0584			
JA10	0.1681	0.0885	JA18	0.1628	0.0578			
	0.1631	0.0673		0.1600	0.1046			
	0.1631	0.0673		0.1766	0.0848			
JA11	0.1597	0.0775	JA19	0.1731	0.0809			
	0.1547	0.0787		0.1718	0.0965			
				0.1718	0.0965			

AUTOMOTIVE BIN SELECTION

Interior / Ipe Blue



Bin Range of Chromaticity Coordinates Specifications

Bin Code	DE X	DE Y	Bin Code	DE X	DE Y
CM0	0.1940	0.3415	CL1	0.1950	0.3200
	0.1956	0.3505		0.2016	0.3390
	0.2072	0.3580		0.2092	0.3265
	0.2016	0.3395		0.2006	0.3175
CM1	0.2016	0.3590	CL2	0.2036	0.3176
	0.2072	0.3590		0.2092	0.3366
	0.2148	0.3555		0.2168	0.3341
	0.2052	0.3355		0.2112	0.3151
CM2	0.2092	0.3266	CL3	0.2112	0.3151
	0.2148	0.3556		0.2188	0.2341
	0.2224	0.3531		0.2244	0.2916
	0.2168	0.3341		0.2188	0.3126
CM3	0.2168	0.3341	CL4	0.2168	0.3126
	0.2224	0.3521		0.2244	0.3316
	0.2299	0.3576		0.2319	0.2291
	0.2244	0.3316		0.2264	0.3101
CM4	0.2244	0.3316	CL5	0.2264	0.3101
	0.2299	0.3506		0.2319	0.3291
	0.2375	0.3481		0.2395	0.3267
	0.2319	0.3291		0.2340	0.3077
CM5	0.2319	0.3291	CG0	0.1828	0.3035
	0.2375	0.3481		0.1884	0.2225
	0.2451	0.3457		0.1960	0.3200
	0.2395	0.3267		0.1904	0.3010
CL0	0.1884	0.3225	CH1	0.1904	0.3010
	0.1940	0.3415		0.1950	0.3200
	0.2016	0.3390		0.2006	0.3175
	0.1960	0.3200		0.1980	0.2985

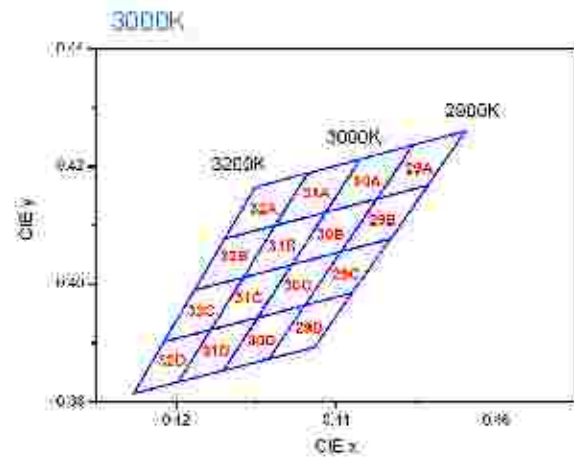
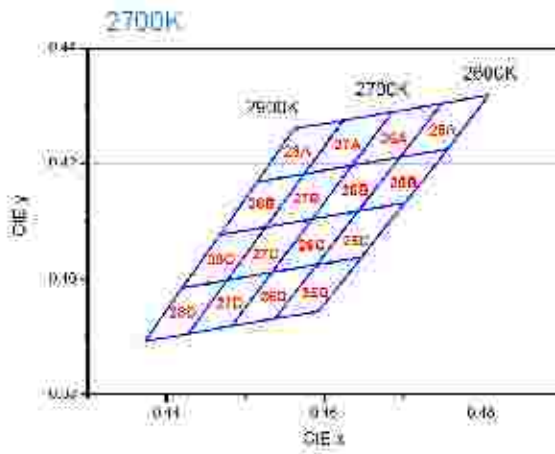
Bin Code	DE X	DE Y	Bin Code	DE X	DE Y
CH2	0.1980	0.2985	CH1	0.1792	0.2630
	0.2036	0.3176		0.1848	0.2820
	0.2112	0.3151		0.1924	0.2796
	0.2056	0.2961		0.1869	0.2606
CH3	0.2056	0.2961	CH2	0.1869	0.2606
	0.2112	0.3151		0.1924	0.2796
	0.2188	0.3126		0.2000	0.2771
	0.2132	0.2936		0.1945	0.2581
CH4	0.2132	0.2936	CH3	0.1945	0.2581
	0.2188	0.3126		0.2000	0.2771
	0.2264	0.3101		0.2077	0.2746
	0.2208	0.2911		0.2021	0.2556
CH5	0.2208	0.2911	CH4	0.2021	0.2556
	0.2264	0.3101		0.2077	0.2746
	0.2340	0.3077		0.2153	0.2721
	0.2284	0.2887		0.2097	0.2531
CJ0	0.1772	0.2840	CH5	0.2097	0.2531
	0.1828	0.3035		0.2153	0.2721
	0.1904	0.3010		0.2229	0.2697
	0.1848	0.2820		0.2173	0.2507
CJ1	0.1848	0.2820	CG0	0.1869	0.2465
	0.1904	0.3010		0.1716	0.2655
	0.1980	0.2986		0.1792	0.2630
	0.1904	0.2796		0.1736	0.2440
CJ2	0.1904	0.2796	CG1	0.1736	0.2440
	0.1980	0.2986		0.1792	0.2630
	0.2056	0.2961		0.1869	0.2606
	0.2000	0.2771		0.1813	0.2416
CJ3	0.2000	0.2771	CG2	0.1813	0.2416
	0.2056	0.2961		0.1869	0.2606
	0.2132	0.2936		0.1945	0.2581
	0.2077	0.2746		0.1869	0.2391
CJ4	0.2077	0.2746	CG3	0.1869	0.2391
	0.2132	0.2936		0.1945	0.2581
	0.2208	0.2911		0.2021	0.2556
	0.2153	0.2721		0.1865	0.2366
CJ5	0.2153	0.2721	CG4	0.1865	0.2366
	0.2208	0.2911		0.2021	0.2556
	0.2284	0.2887		0.2097	0.2531
	0.2229	0.2697		0.2043	0.2341
CH0	0.1716	0.2655	CG0	0.2043	0.2341
	0.1772	0.2845		0.2097	0.2531
	0.1848	0.2820		0.2173	0.2507
	0.1792	0.2630		0.2119	0.2317

Bin Code	CE X	CE Y	Bin Code	CE X	CE Y
CF0	0.1624	0.2275	CB5	0.1930	0.1963
	0.1650	0.2465		0.1985	0.2153
	0.1735	0.2440		0.2052	0.2127
	0.1680	0.2250		0.2007	0.1937
CF1	0.1680	0.2250	CB6	0.1492	0.1895
	0.1735	0.2440		0.1548	0.2085
	0.1813	0.2415		0.1524	0.2050
	0.1757	0.2225		0.1558	0.1870
CF2	0.1757	0.2225	CB7	0.1558	0.1975
	0.1813	0.2415		0.1524	0.2050
	0.1889	0.2381		0.1701	0.2036
	0.1833	0.2201		0.1545	0.1845
CF3	0.1833	0.2201	CB8	0.1545	0.1845
	0.1889	0.2381		0.1701	0.2036
	0.1955	0.2355		0.1777	0.2011
	0.1909	0.2175		0.1721	0.1921
CF4	0.1909	0.2175	CB9	0.1721	0.1821
	0.1955	0.2355		0.1737	0.2011
	0.2043	0.2341		0.1854	0.1985
	0.1985	0.2157		0.1758	0.1795
CF5	0.1985	0.2157	CB10	0.1737	0.1795
	0.2043	0.2341		0.1854	0.1985
	0.2118	0.2317		0.1935	0.1951
	0.2052	0.2127		0.1675	0.1773
CE0	0.1545	0.2085	CB11	0.1875	0.1771
	0.1624	0.2275		0.1930	0.1963
	0.1680	0.2250		0.2007	0.1937
	0.1624	0.2050		0.1951	0.1747
CE1	0.1624	0.2050	CB12	0.1436	0.1785
	0.1680	0.2250		0.1492	0.1895
	0.1757	0.2225		0.1548	0.1975
	0.1701	0.2036		0.1513	0.1655
CE2	0.1701	0.2036	CB13	0.1513	0.1655
	0.1757	0.2225		0.1558	0.1975
	0.1833	0.2201		0.1545	0.1845
	0.1777	0.2011		0.1589	0.1655
CE3	0.1777	0.2011	CB14	0.1589	0.1655
	0.1833	0.2201		0.1545	0.1845
	0.1909	0.2175		0.1721	0.1921
	0.1854	0.1985		0.1558	0.1631
CE4	0.1854	0.1985	CB15	0.1558	0.1631
	0.1909	0.2175		0.1721	0.1921
	0.1985	0.2157		0.1737	0.1795
	0.1930	0.1963		0.1742	0.1605

Bin Code	CE X	CE Y	Bin Code	CE X	CE Y
CB4	0.1742	0.1525	CB16	0.1754	0.1291
	0.1739	0.1735		0.1819	0.1581
	0.1815	0.1771		0.1895	0.1557
	0.1819	0.1581		0.1840	0.1357
CB5	0.1819	0.1581	CB17	0.1324	0.1225
	0.1875	0.1771		0.1380	0.1515
	0.1951	0.1747		0.1457	0.1490
	0.1895	0.1557		0.1451	0.1350
CB6	0.1895	0.1557	CB18	0.1451	0.1350
	0.1951	0.1515		0.1436	0.1490
	0.1436	0.1705		0.1533	0.1455
	0.1513	0.1655		0.1477	0.1275
CB7	0.1477	0.1490	CB19	0.1477	0.1275
	0.1457	0.1830		0.1513	0.1580
	0.1513	0.1580		0.1589	0.1625
	0.1533	0.1455		0.1533	0.1455
CB8	0.1533	0.1455	CB20	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB9	0.1533	0.1455	CB21	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB10	0.1533	0.1455	CB22	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB11	0.1533	0.1455	CB23	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB12	0.1533	0.1455	CB24	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB13	0.1533	0.1455	CB25	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB14	0.1533	0.1455	CB26	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
CB15	0.1533	0.1455	CB27	0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455
	0.1533	0.1455		0.1533	0.1455

AUTOMOTIVE BIN SELECTION

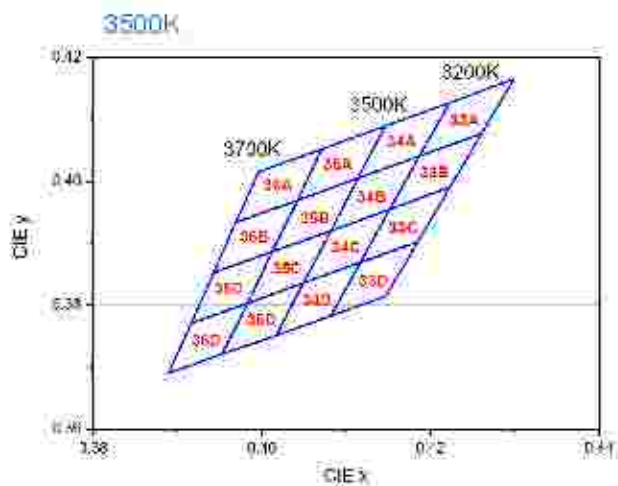
Interior / 5630/2835



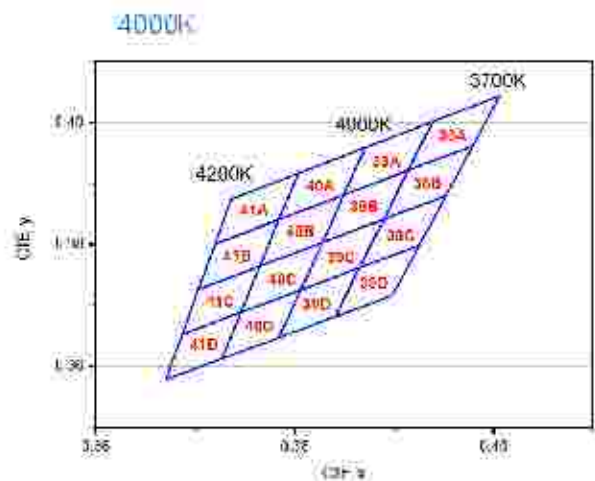
Bin Range of Chromaticity Coordinates Specifications

CCT	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
2700K	29A	0.4730	0.4304	275	0.4697	0.4211
		0.4697	0.4211		0.4664	0.4118
		0.4728	0.4205		0.4703	0.4132
		0.4810	0.4319		0.4788	0.4225
	29C	0.4644	0.4118	280	0.4581	0.4025
		0.4581	0.4025		0.4538	0.3932
		0.4648	0.4038		0.4583	0.3844
		0.4703	0.4130		0.4648	0.4038
	29A	0.4687	0.4288	285	0.4635	0.4187
		0.4636	0.4197		0.4585	0.4154
		0.4697	0.4211		0.4644	0.4118
		0.4750	0.4304		0.4697	0.4211
	29C	0.4585	0.4104	290	0.4534	0.4012
		0.4534	0.4012		0.4483	0.3919
		0.4581	0.4025		0.4538	0.3932
		0.4644	0.4118		0.4581	0.4025
	27A	0.4625	0.4273	275	0.4575	0.4182
		0.4575	0.4182		0.4528	0.4090
		0.4636	0.4197		0.4585	0.4104
		0.4687	0.4288		0.4636	0.4187
	27C	0.4526	0.4036	270	0.4477	0.3988
		0.4477	0.3988		0.4428	0.3898
		0.4534	0.4012		0.4483	0.3919
		0.4585	0.4104		0.4534	0.4012
29A	0.4562	0.4260	285	0.4515	0.4168	
	0.4515	0.4168		0.4468	0.4077	
	0.4575	0.4182		0.4525	0.4090	
	0.4636	0.4278		0.4575	0.4182	
28C	0.4468	0.4077	280	0.4420	0.3988	
	0.4420	0.3898		0.4373	0.3898	
	0.4477	0.3898		0.4428	0.3918	
	0.4526	0.4038		0.4477	0.3988	

CCT	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
3000K	32A	0.4498	0.4236	285	0.4451	0.4145
		0.4451	0.4135		0.4405	0.4055
		0.4514	0.4158		0.4458	0.4077
		0.4562	0.4260		0.4515	0.4188
	30C	0.4405	0.4055	290	0.4361	0.3964
		0.4361	0.3964		0.4315	0.3873
		0.4420	0.3985		0.4373	0.3898
		0.4468	0.4077		0.4420	0.3885
	30A	0.4436	0.4212	288	0.4387	0.4122
		0.4387	0.4122		0.4345	0.4033
		0.4451	0.4145		0.4405	0.4055
		0.4498	0.4236		0.4451	0.4145
	30C	0.4345	0.4033	290	0.4302	0.3943
		0.4302	0.3943		0.4259	0.3853
		0.4361	0.3964		0.4315	0.3873
		0.4405	0.4025		0.4361	0.3964
	31A	0.4364	0.4198	295	0.4324	0.4102
		0.4324	0.4089		0.4284	0.4011
		0.4387	0.4122		0.4345	0.4033
		0.4436	0.4212		0.4367	0.4122
	31C	0.4284	0.4011	290	0.4243	0.3922
		0.4243	0.3922		0.4203	0.3834
		0.4302	0.3943		0.4263	0.3822
		0.4345	0.4033		0.4315	0.3922
32A	0.4288	0.4182	285	0.4251	0.4077	
	0.4251	0.4077		0.4213	0.3988	
	0.4324	0.4100		0.4284	0.4011	
	0.4365	0.4185		0.4324	0.4100	
30C	0.4223	0.3988	290	0.4185	0.3902	
	0.4185	0.3902		0.4147	0.3814	
	0.4243	0.3922		0.4185	0.3902	
	0.4284	0.4011				



Bin Range of Chromaticity Coordinates Specifications



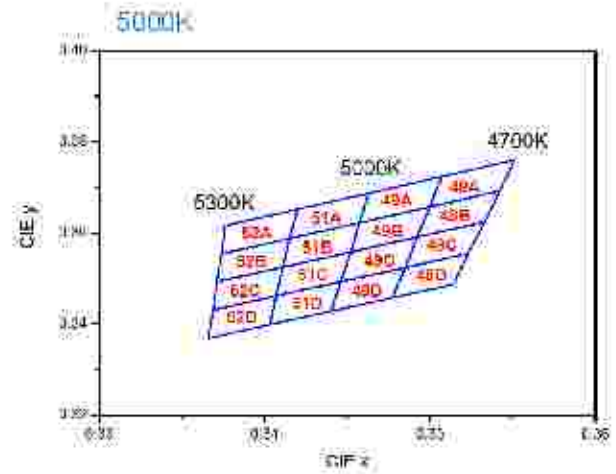
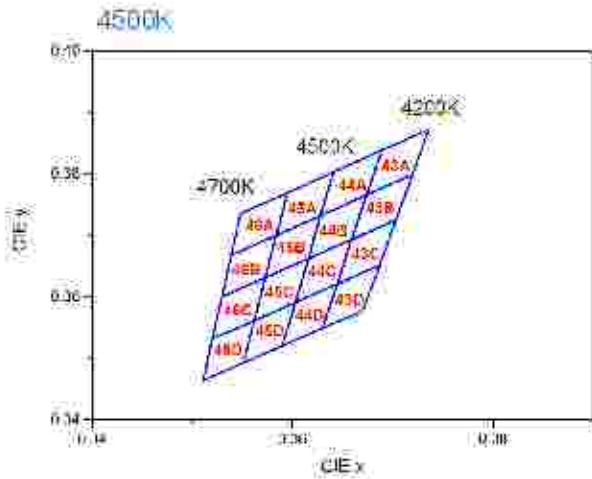
Bin Range of Chromaticity Coordinates Specifications

CCT	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
3500K	33A	0.4223	0.4127	33B	0.4197	0.4041
		0.4187	0.4041		0.4152	0.3955
		0.4361	0.4077		0.4223	0.3990
		0.4299	0.4165		0.4261	0.4077
	33C	0.4152	0.3955	33D	0.4117	0.3869
		0.4117	0.3869		0.4082	0.3783
		0.4185	0.3902		0.4147	0.3814
		0.4223	0.3990		0.4185	0.3902
	34A	0.4146	0.4089	34B	0.4114	0.4005
		0.4114	0.4005		0.4082	0.3920
		0.4187	0.4041		0.4152	0.3955
		0.4223	0.4127		0.4187	0.4041
	34C	0.4082	0.3920	34D	0.4049	0.3836
		0.4049	0.3836		0.4017	0.3751
		0.4117	0.3869		0.4082	0.3783
		0.4152	0.3955		0.4117	0.3869
	35A	0.4071	0.4062	35B	0.4042	0.3959
		0.4042	0.3959		0.4012	0.3885
		0.4114	0.4005		0.4082	0.3920
		0.4146	0.4089		0.4114	0.4005
	35C	0.4012	0.3886	35D	0.3983	0.3803
		0.3983	0.3803		0.3953	0.3721
		0.4049	0.3836		0.4017	0.3751
		0.4082	0.3920		0.4049	0.3836
	36A	0.3995	0.4015	36B	0.3969	0.3934
		0.3969	0.3934		0.3949	0.3853
		0.4042	0.3989		0.4012	0.3884
		0.4071	0.4062		0.4042	0.3969
	36C	0.3843	0.3853	36D	0.3816	0.3771
		0.3816	0.3771		0.3889	0.3690
		0.3883	0.3803		0.3953	0.3721
		0.4012	0.3886		0.3983	0.3803

CCT	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
4000K	38A	0.3939	0.4002	38B	0.3914	0.3922
		0.3914	0.3922		0.3890	0.3842
		0.3978	0.3962		0.3962	0.3889
		0.4008	0.4034		0.3970	0.3962
	38C	0.3890	0.3842	38D	0.3865	0.3762
		0.3865	0.3762		0.3841	0.3682
		0.3928	0.3798		0.3888	0.3716
		0.3952	0.3888		0.3905	0.3789
	39A	0.3871	0.3859	39B	0.3849	0.3801
		0.3849	0.3801		0.3828	0.3803
		0.3914	0.3822		0.3890	0.3842
		0.3939	0.4002		0.3914	0.3922
	39C	0.3828	0.3803	39D	0.3806	0.3725
		0.3806	0.3725		0.3784	0.3647
		0.3865	0.3762		0.3841	0.3682
		0.3890	0.3842		0.3865	0.3762
	40A	0.3804	0.3817	40B	0.3784	0.3841
		0.3784	0.3841		0.3808	0.3803
		0.3849	0.3881		0.3849	0.3881
		0.3871	0.3959		0.3849	0.3881
	40C	0.3765	0.3785	40D	0.3745	0.3689
		0.3745	0.3689		0.3721	0.3613
		0.3806	0.3725		0.3784	0.3647
		0.3828	0.3803		0.3806	0.3725
	41A	0.3736	0.3874	41B	0.3722	0.3803
		0.3722	0.3803		0.3703	0.3726
		0.3784	0.3841		0.3765	0.3753
		0.3804	0.3917		0.3784	0.3841
	41C	0.3703	0.3726	41D	0.3687	0.3652
		0.3687	0.3652		0.3670	0.3578
		0.3748	0.3689		0.3727	0.3613
		0.3765	0.3762		0.3746	0.3689

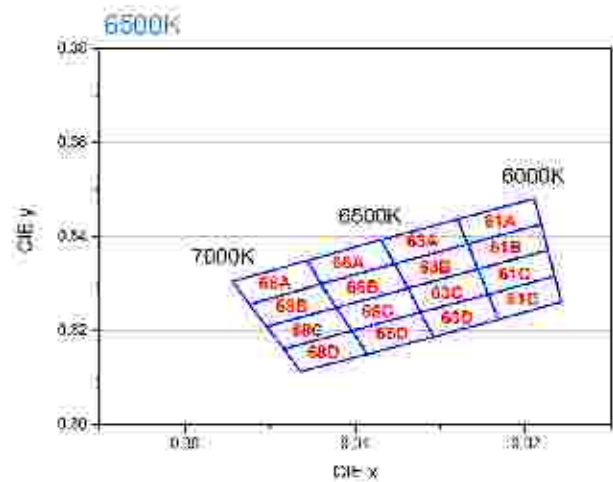
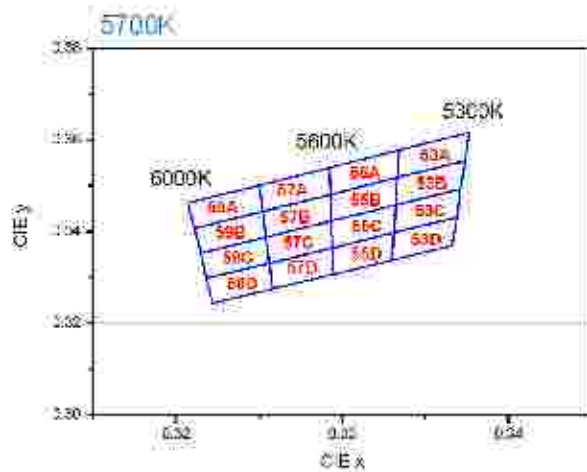
AUTOMOTIVE BIN SELECTION

Interior / 5630/2835



Oct	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
4500K	43A	0.3609	0.3839	43B	0.3674	0.3767
		0.3674	0.3767		0.3659	0.3684
		0.3730	0.3690		0.3703	0.3726
		0.3736	0.3674		0.3720	0.3800
	43C	0.3609	0.3694	43D	0.3640	0.3622
		0.3645	0.3622		0.3630	0.3650
		0.3687	0.3652		0.3670	0.3579
		0.3703	0.3736		0.3687	0.3652
	44A	0.3641	0.3604	44B	0.3628	0.3723
		0.3628	0.3733		0.3616	0.3663
		0.3678	0.3767		0.3659	0.3684
		0.3689	0.3838		0.3674	0.3767
	44C	0.3616	0.3683	44D	0.3603	0.3592
		0.3603	0.3592		0.3590	0.3521
		0.3645	0.3622		0.3630	0.3590
		0.3659	0.3694		0.3645	0.3622
	45A	0.3699	0.3770	45B	0.3684	0.3701
		0.3684	0.3701		0.3573	0.3622
		0.3628	0.3733		0.3616	0.3663
		0.3641	0.3804		0.3628	0.3733
	45C	0.3673	0.3632	45D	0.3662	0.3662
		0.3642	0.3662		0.3651	0.3493
		0.3603	0.3592		0.3603	0.3521
		0.3616	0.3683		0.3623	0.3592
46A	0.3648	0.3736	46B	0.3639	0.3668	
	0.3639	0.3668		0.3630	0.3801	
	0.3684	0.3701		0.3573	0.3622	
	0.3695	0.3770		0.3664	0.3701	
46C	0.3690	0.3601	46D	0.3620	0.3693	
	0.3620	0.3633		0.3611	0.3469	
	0.3662	0.3662		0.3551	0.3493	
	0.3673	0.3630		0.3662	0.3682	

Oct	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
5000K	49A	0.3507	0.3734	49B	0.3550	0.3657
		0.3550	0.3687		0.3492	0.3591
		0.3542	0.3692		0.3533	0.3624
		0.3551	0.3760		0.3542	0.3683
	49C	0.3482	0.3591	49D	0.3485	0.3524
		0.3485	0.3524		0.3477	0.3458
		0.3529	0.3555		0.3514	0.3487
		0.3533	0.3624		0.3523	0.3555
	50A	0.3489	0.3687	50B	0.3457	0.3622
		0.3457	0.3622		0.3452	0.3556
		0.3500	0.3697		0.3492	0.3591
		0.3507	0.3734		0.3500	0.3657
	49C	0.3462	0.3558	49D	0.3449	0.3493
		0.3446	0.3493		0.3440	0.3428
		0.3485	0.3524		0.3477	0.3458
		0.3490	0.3591		0.3485	0.3524
	51A	0.3420	0.3682	51B	0.3415	0.3688
		0.3415	0.3688		0.3411	0.3521
		0.3457	0.3622		0.3452	0.3556
		0.3453	0.3687		0.3457	0.3622
	51C	0.3411	0.3525	51D	0.3407	0.3462
		0.3407	0.3462		0.3403	0.3399
		0.3446	0.3493		0.3440	0.3428
		0.3452	0.3558		0.3446	0.3493
52A	0.3376	0.3816	52B	0.3374	0.3653	
	0.3374	0.3654		0.3371	0.3493	
	0.3410	0.3666		0.3411	0.3525	
	0.3420	0.3652		0.3415	0.3589	
52C	0.3371	0.3493	52D	0.3369	0.3441	
	0.3368	0.3431		0.3368	0.3369	
	0.3407	0.3462		0.3403	0.3399	
	0.3411	0.3525		0.3407	0.3482	



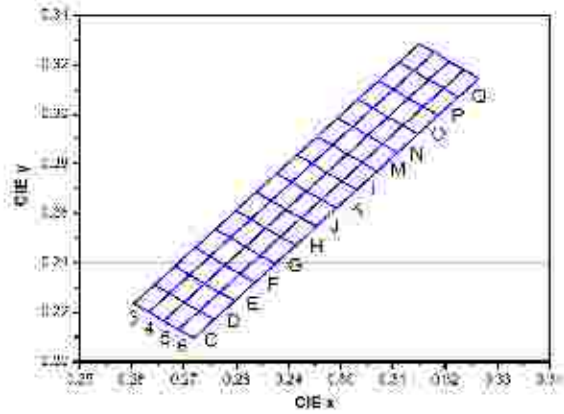
Bin Range of Chromaticity Coordinates Specifications:

Temp	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
5700K	56A	0.3334	0.6578	56B	0.3333	0.6578
		0.3333	0.6578		0.3332	0.6578
		0.3374	0.3554		0.3373	0.3554
		0.3374	0.3615		0.3374	0.3554
	56C	0.3332	0.3459	56D	0.3334	0.3398
		0.3331	0.3398		0.3330	0.3338
		0.3369	0.3431		0.3368	0.3369
		0.3371	0.3490		0.3369	0.3431
	57A	0.3292	0.3539	57B	0.3293	0.3481
		0.3293	0.3481		0.3293	0.3423
		0.3333	0.0518		0.3332	0.3459
		0.3334	0.0579		0.3333	0.3519
	57C	0.3292	0.0423	57D	0.3294	0.3364
		0.3294	0.0364		0.3294	0.3306
		0.3331	0.3338		0.3330	0.3398
		0.3332	0.3459		0.3331	0.3398
	57A	0.3256	0.3507	57B	0.3252	0.3444
		0.3252	0.3444		0.3254	0.3386
		0.3293	0.3481		0.3293	0.3423
		0.3292	0.3539		0.3293	0.3481
	57C	0.3254	0.3368	57D	0.3256	0.3331
		0.3258	0.3321		0.3258	0.3273
		0.3294	0.3364		0.3294	0.3306
		0.3292	0.3423		0.3294	0.3364
58A	0.3207	0.3402	58B	0.3211	0.3407	
	0.3211	0.0407		0.3215	0.3383	
	0.3252	0.0444		0.3254	0.3388	
	0.3250	0.0501		0.3252	0.3444	
58C	0.3218	0.0353	58D	0.3216	0.3388	
	0.3218	0.3298		0.3222	0.3243	
	0.3256	0.3331		0.3258	0.3273	
	0.3254	0.3388		0.3256	0.3331	

Temp	Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
6500K	66A	0.3160	0.3437	66B	0.3166	0.3384
		0.3165	0.3384		0.3172	0.3331
		0.3209	0.3426		0.3209	0.3426
		0.3205	0.3481		0.3205	0.3481
	66C	0.3172	0.3331	66D	0.3179	0.3277
		0.3179	0.3277		0.3217	0.3316
		0.3217	0.3316		0.3218	0.3371
		0.3218	0.3371		0.3217	0.3316
	67A	0.3115	0.3393	67B	0.3123	0.3342
		0.3123	0.3342		0.3123	0.3290
		0.3165	0.3384		0.3172	0.3331
		0.3160	0.3437		0.3166	0.3384
	67C	0.3121	0.3290	67D	0.3128	0.3239
		0.3138	0.3239		0.3178	0.3277
		0.3178	0.3277		0.3172	0.3331
		0.3172	0.3331		0.3179	0.3277
	68A	0.3072	0.3349	68B	0.3080	0.3295
		0.3080	0.3295		0.3089	0.3245
		0.3123	0.3342		0.3131	0.3290
		0.3145	0.3393		0.3123	0.3342
	68C	0.3069	0.3349	68D	0.3068	0.3250
		0.3069	0.3250		0.3107	0.3197
		0.3138	0.3239		0.3148	0.3167
		0.3121	0.3290		0.3138	0.3239
69A	0.3029	0.3304	69B	0.3038	0.3258	
	0.3038	0.3258		0.3048	0.3209	
	0.3080	0.3295		0.3089	0.3245	
	0.3072	0.3349		0.3060	0.3289	
69C	0.3048	0.3209	69D	0.3058	0.3161	
	0.3068	0.3161		0.3068	0.3113	
	0.3089	0.3209		0.3107	0.3150	
	0.3089	0.3249		0.3089	0.3200	

AUTOMOTIVE BIN SELECTION

Interior / Backlight



Bin Range of Chromaticity Coordinates Specifications

Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
Q2	0.3140	0.3176	J3	0.2667	0.2651
	0.3111	0.3210		0.2838	0.2585
	0.3153	0.3285		0.2677	0.2760
	0.3179	0.3281		0.2905	0.2725
P3	0.3101	0.3101	Q4	0.3168	0.3138
	0.3072	0.3135		0.3140	0.3176
	0.3111	0.3210		0.3179	0.3201
	0.3140	0.3176		0.3207	0.3214
Q3	0.3062	0.3026	P4	0.3125	0.3064
	0.3033	0.3060		0.3101	0.3101
	0.3072	0.3135		0.3140	0.3176
	0.3101	0.3101		0.3168	0.3139
N2	0.3023	0.2951	Q4	0.3080	0.2989
	0.2994	0.2985		0.3062	0.3026
	0.3033	0.3060		0.3101	0.3101
	0.3062	0.3026		0.3125	0.3064
M3	0.2884	0.2876	N4	0.3051	0.2914
	0.2955	0.2910		0.3023	0.2951
	0.2934	0.2985		0.3062	0.3026
	0.3023	0.2951		0.3095	0.2963
L2	0.2945	0.2801	M4	0.3012	0.2839
	0.2816	0.2835		0.2884	0.2816
	0.2955	0.2910		0.3023	0.2951
	0.2884	0.2876		0.3051	0.2914
K2	0.2905	0.2726	L4	0.2973	0.2764
	0.2877	0.2760		0.2945	0.2801
	0.2915	0.2835		0.2984	0.2876
	0.2945	0.2901		0.3012	0.2839

Bin Code	CIE x	CIE y	Bin Code	CIE x	CIE y
K4	0.2934	0.2689	P4	0.3187	0.2995
	0.2905	0.2726		0.3158	0.3026
	0.2945	0.2801		0.3197	0.3105
	0.2972	0.2764		0.3226	0.3071
J4	0.2884	0.2614	Q4	0.3148	0.2921
	0.2857	0.2651		0.3119	0.2955
	0.2905	0.2726		0.3158	0.3030
	0.2934	0.2689		0.3187	0.2995
Q5	0.3107	0.3105	M4	0.3109	0.2846
	0.3168	0.3139		0.3080	0.2880
	0.3207	0.3214		0.3119	0.2955
	0.3235	0.3180		0.3148	0.2921
P5	0.3158	0.3030	M4	0.3070	0.2771
	0.3129	0.3064		0.3041	0.2805
	0.3168	0.3139		0.3080	0.2839
	0.3107	0.3105		0.3109	0.2846
O5	0.3119	0.2955	L4	0.3031	0.2695
	0.3080	0.2989		0.3002	0.2730
	0.3129	0.3064		0.3041	0.2805
	0.3159	0.3030		0.3070	0.2771
N5	0.3080	0.2989	K4	0.2992	0.2621
	0.3051	0.2914		0.2963	0.2655
	0.3080	0.2989		0.3002	0.2730
	0.3119	0.2955		0.3031	0.2695
M5	0.3041	0.2805	J4	0.2953	0.2546
	0.3012	0.2839		0.2924	0.2580
	0.3051	0.2914		0.2963	0.2605
	0.3080	0.2989		0.2992	0.2621
L5	0.3002	0.2730	K4	0.2828	0.2576
	0.2973	0.2764		0.2799	0.2610
	0.3012	0.2839		0.2838	0.2645
	0.3041	0.2905		0.2867	0.2651
K5	0.2963	0.2665	Q4	0.2789	0.2501
	0.2934	0.2689		0.2760	0.2535
	0.2973	0.2764		0.2799	0.2610
	0.3002	0.2730		0.2828	0.2576
J5	0.2904	0.2580	P4	0.2750	0.2428
	0.2884	0.2614		0.2721	0.2460
	0.2934	0.2689		0.2760	0.2535
	0.2963	0.2655		0.2789	0.2501
Q6	0.3226	0.3071	E4	0.2711	0.2351
	0.3187	0.3105		0.2682	0.2385
	0.3235	0.3180		0.2721	0.2460
	0.3265	0.3145		0.2750	0.2425

Bin Code	CEV	CEV	MIDP	CEV	CEV
D3	0.2672	0.2276	E5	0.2756	0.2280
	0.2643	0.2310		0.2739	0.2314
	0.2682	0.2385		0.2776	0.2389
	0.2711	0.2361		0.2807	0.2365
C3	0.2633	0.2201	D6	0.2729	0.2286
	0.2604	0.2235		0.2703	0.2239
	0.2643	0.2310		0.2739	0.2314
	0.2672	0.2276		0.2768	0.2280
H4	0.2659	0.2039	D5	0.2680	0.2130
	0.2628	0.2076		0.2661	0.2164
	0.2667	0.2051		0.2700	0.2239
	0.2696	0.2014		0.2729	0.2208
G4	0.2817	0.2084	H5	0.2914	0.2471
	0.2789	0.2051		0.2885	0.2505
	0.2828	0.2076		0.2924	0.2580
	0.2859	0.2039		0.2953	0.2546
F3	0.2778	0.2388	D6	0.2873	0.2396
	0.2750	0.2426		0.2846	0.2430
	0.2789	0.2321		0.2865	0.2385
	0.2817	0.2084		0.2914	0.2471
E4	0.2739	0.2314	F6	0.2836	0.2327
	0.2711	0.2351		0.2807	0.2355
	0.2750	0.2426		0.2846	0.2430
	0.2778	0.2388		0.2873	0.2396
G4	0.2700	0.2208	E5	0.2787	0.2246
	0.2672	0.2276		0.2756	0.2280
	0.2711	0.2351		0.2807	0.2355
	0.2739	0.2314		0.2836	0.2321
C4	0.2661	0.2164	D6	0.2756	0.2171
	0.2633	0.2201		0.2729	0.2208
	0.2672	0.2276		0.2768	0.2280
	0.2700	0.2239		0.2787	0.2246
H5	0.2885	0.2005	D5	0.2719	0.2096
	0.2859	0.2039		0.2680	0.2130
	0.2889	0.2014		0.2729	0.2208
	0.2924	0.2080		0.2759	0.2171
G5	0.2846	0.2430			
	0.2817	0.2084			
	0.2856	0.2051			
	0.2885	0.2019			
F5	0.2807	0.2365			
	0.2778	0.2389			
	0.2817	0.2464			
	0.2846	0.2430			



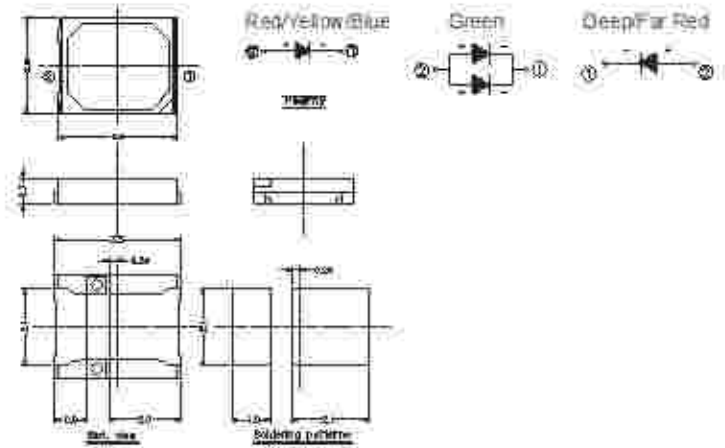
VISIBLE LED

- 54** Lighting LED
- 73** Horticulture Lighting LED
- 75** UV
- 83** Flash LED
- 89** SMD LED
- 134** LED Lamps
- 151** LED Digital Displays
- 169** Signage LED
- 176** Automotive LED
- 195** Backlighting LED

Lighting | 2835(67-xx5)



UNIT : mm

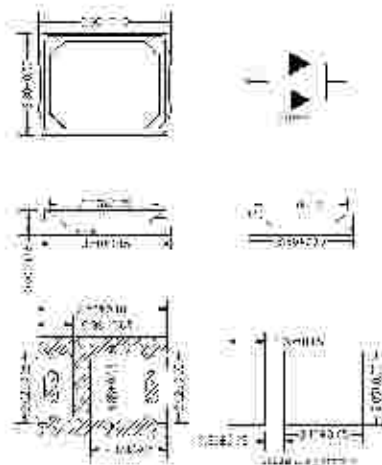


0.2W / 3V

Product	Dimension (mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ.)
87-218B-PC-D4552500T02362021	2.8x3.5x0.7	2.5-2.8	60	Blue	445-455nm	2.5lm	2.0lm
87-218B-PC-D1552500T02362021	2.8x3.5x0.7	2.5-2.8	60	Green	515-525nm	3lm	2.5lm
87-218B-PC-D200086L3H0242921	2.8x3.5x0.7	1.5-2.0	60	Red	620-630nm	3lm	1.1lm
87-218B-PC-D4552500T02362021	2.8x3.5x0.7	2.5-2.8	60	Yellow	575-585nm	4.5lm	3.0lm
87-218B-PC-D1552500T02362021	2.8x3.5x0.7	2.5-2.8	60	Deep Red	655-665nm	4lmW	70mW
87-218B-PC-D200086L3H0242921	2.8x3.5x0.7	1.5-2.0	60	Far Red	730-750nm	15lmW	70mW



UNIT : mm



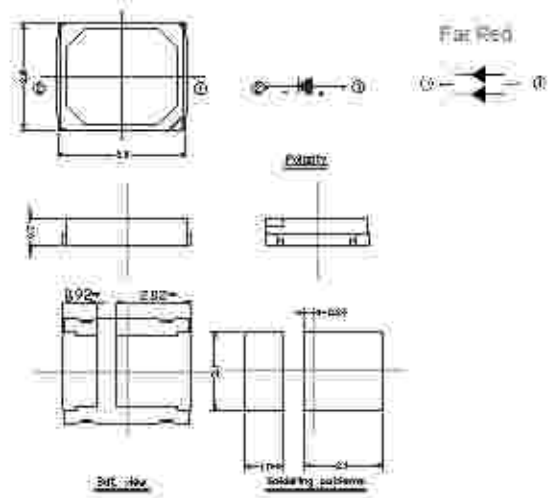
0.2W / 3V

Product	Dimension (mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ.)	CR1 (Min)	Luminous Efficacy (lm/W)
87-228TKHE-SM2772292021	2.8x3.5x0.7	2.6-2.9	60	Warm White	2700K	32	33	80	110
87-228TKHE-SM3000292021	2.8x3.5x0.7	2.6-2.9	60	Warm White	3000K	33	34	80	115
87-228TKHE-SM3500292021	2.8x3.5x0.7	2.6-2.9	60	Warm White	3500K	33	36	80	110
87-228TKHE-SM4000292021	2.8x3.5x0.7	2.6-2.9	60	Neutral White	4000K	34	37	80	110
87-228TKHE-SM5000292021	2.8x3.5x0.7	2.6-2.9	60	Cool White	5000K	36	37	80	110
87-228TKHE-SM6500292021	2.8x3.5x0.7	2.6-2.9	60	Cool White	6500K	36	37	80	110
87-228TKHE-SM8000292021	2.8x3.5x0.7	2.6-2.9	60	Cool White	8000K	35	36	80	110

Lighting | 2835(67-xxS)



UNIT: mm

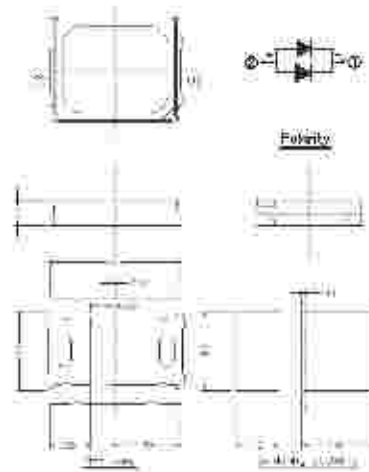


0.6W / 3V

Product	Dimension (mm)	Forward Voltage (V)	Forward Current (mA)	Color	GCT (°)	Luminous Flux (Min)	Luminous Flux (Typ)
67-2835(67C)-D47155L-000R2152T	2.83±0.07	2.8-3.6	150	Blue	65-175°	300	1200
67-2835(67C)-D00000-000R2152T	2.83±0.07	2.8-3.6	150	Green	65-175°	300	1200
67-2835(67C)-D15033-000R2152T	2.83±0.07	1.9-2.9	150	Red	65-175°	1500	19500
67-2835(67C)-D80000-000R2152T	2.83±0.07	1.8-2.8	150	Yellow	65-175°	1100	1800
67-2835(67C)-F00800-000R2152T	2.83±0.07	1.8-2.7	150	Deep Red	65-180°	800W	13000W
67-2835(67C)-F20000-000R2152T	2.83±0.07	1.8-2.7	150	Far Red	65-180°	800W	13000W



UNIT: mm



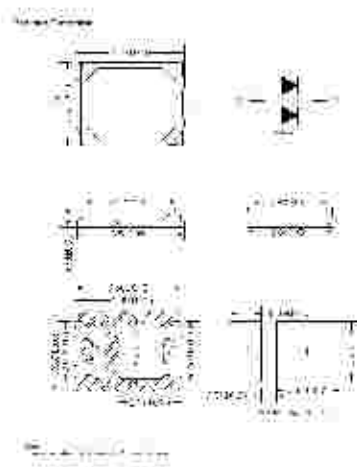
0.5W / 3V

Product	Dimension (mm)	Forward Voltage (V)	Forward Current (mA)	Color	GCT (°)	Luminous Flux (Min)	Luminous Flux (Typ)	CRI (Min)	Luminous Efficacy (lm/W)
67-2835(67C)-N0770002150T	2.83±0.07	2.7-3.6	150	Warm White	2700	75	75	80	150
67-2835(67C)-N080002150T	2.83±0.07	2.7-3.6	150	Warm White	3000	80	84	80	200
67-2835(67C)-N090002150T	2.83±0.07	2.7-3.6	150	Warm White	3000	80	84	80	200
67-2835(67C)-N100002150T	2.83±0.07	2.7-3.6	150	Warm White	3000	85	89	80	210
67-2835(67C)-N080002150T	2.83±0.07	2.7-3.6	150	Cool White	5000	80	86	80	210
67-2835(67C)-N090002150T	2.83±0.07	2.7-3.6	150	Cool White	5000	80	86	80	210

Lighting | 2835(67-xx5)



UNIT : mm

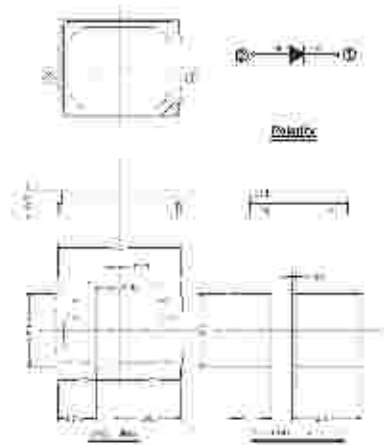


0.5W / 3V

Product	Dimension (mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRI (Min)	Luminous Efficacy (lm/W)
WT-2835TKK3C-H1780302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Warm White	2700	80	84	80	160
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Warm White	3000	80	80	80	170
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Warm White	3000	85	80	80	176
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Warm White	4000	80	84	80	160
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Cool White	3000	80	84	80	160
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Cool White	3700	80	84	80	166
ST-2835TKK3C-H180302152T (EMM)	2.8x2.5x0.7	2.2~3.0	100	Cool White	4500	80	82	80	164



UNIT : mm



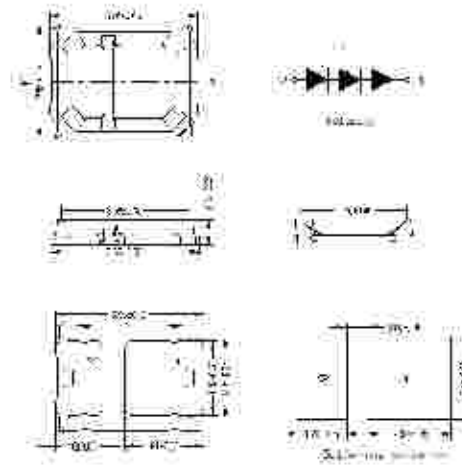
0.5W / 9V

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRI (min)	Luminous Efficacy (lm/W)
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Warm White	2700	70	74	80	133
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Warm White	3000	70	77	80	138
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Neutral White	4000	75	80	80	142
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Cool White	5000	75	80	80	142
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Cool White	5700	75	80	80	143
ST-216TANEC-H27106262T	2.8x2.5x0.7	8.2~9.5	30	Cool White	6000	75	80	80	143

Lighting | 2835(67-xxS)



UNIT: mm



1W / 9V

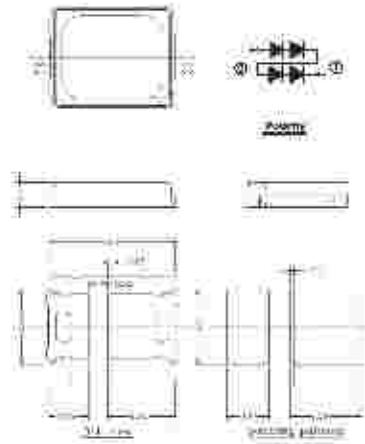
Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	DCI (V)	Luminous Flux (lm)	Luminous Flux (Typ.)	CR (min.)	Luminous Efficacy (lm/W)
67-2835WXX-5M27-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	2.700	140	144	80	144
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	100	oWarm White	2.600	140	143	80	143
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	2.600	128	153	80	150
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oNeutral White	4.000	105	150	80	100
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.000	105	160	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	100	oCool White	4.700	105	160	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.000	105	160	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.300	105	160	80	160
67-2835WXX-5M27-14062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	2.700	145	148	80	145
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	2.600	150	155	80	155
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	3.500	155	160	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	4.000	160	165	80	165
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.000	160	165	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.200	160	165	80	165
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.500	160	165	80	165
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	6.000	165	170	80	170
67-2835WXX-5M27-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	2.700	150	155	80	155
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	3.600	155	160	80	160
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	3.500	160	165	80	165
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oWarm White	4.000	165	170	80	170
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.000	165	170	80	170
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	5.700	165	170	80	170
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	6.000	165	170	80	170
67-2835WXX-5M20-15062-1021*	2.8x3.5x0.2	6.4~6.6	110	oCool White	6.000	160	165	80	165

Bright

Lighting | 2835(67-xxS)



UNIT : mm

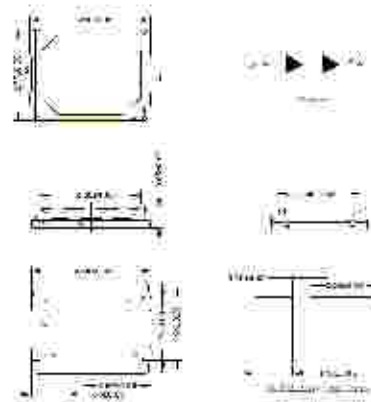


1W / 12V

Product	P_{max} (L/W)(mm)	Forward Voltage (V)	Forward Current (mA)	Color	OCT (°)	Luminous Flux (lm)	Luminous Flux (lp)	CR (mm)	Luminous Efficacy (lm/W)
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	S-Warm White	2700	130	125	80	140
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	S-Cool White	3000	130	121	80	130
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	S-Warm White	3000	130	121	80	147
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	C-Cool White	3000	140	130	80	150
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	C-Cool White	3000	140	130	80	150
S1245TRHEA11T1101224S2M0T	2.8x5.0T	11.5-13.5	80	C-Cool White	3000	140	130	80	150



UNIT : mm



1W / 18V

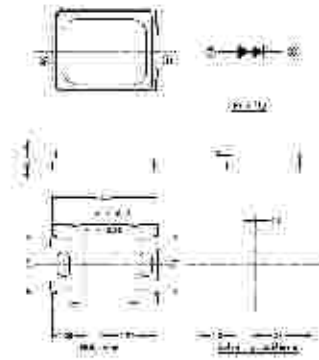
Product	P_{max} (L/W)(mm)	Forward Voltage (V)	Forward Current (mA)	Color	OCT (°)	Luminous Flux (lm)	Luminous Flux (lp)	CR (mm)	Luminous Efficacy (lm/W)
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Warm White	2700	118	107	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Cool White	3000	120	107	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Warm White	3000	128	112	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	130	110	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	131	111	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	130	110	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	130	110	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	128	107	80	120
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Warm White	2700	130	114	80	124
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Cool White	3000	130	110	80	124
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	S-Warm White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144
S1225TRHEA11T1101225S2M0T	2.8x5.0T	17-19	50	C-Cool White	3000	140	124	80	144

Lighting

Lighting | 2835(67-xxS)



UNIT: mm

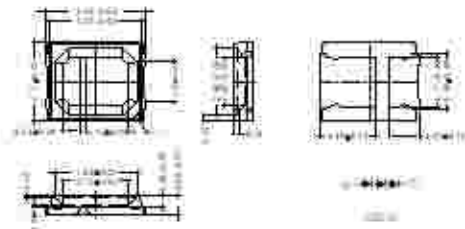


1W / 36V

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	OCT (°)	Luminous Flux (lm)	Luminous Flux (lm)	CRa (lm)	Luminous Efficacy (lm/W)
87-283TRK5-A2T120960J252M/27	2.8x3.5x0.7	34-38	25	Luxium White	2700	120	120	90	120
87-283TRK5-A100960J252M/27	2.8x3.5x0.7	34-38	25	Luxium White	3000	140	140	90	128
87-283TRK5-M40100960J252M/27	2.8x3.5x0.7	34-38	25	Neutral White	3000	130	134	90	134
87-283TRK5-M400960J252M/27	2.8x3.5x0.7	34-38	25	Warm White	3000	130	134	90	138
87-283TRK5-A100960J252M/27	2.8x3.5x0.7	34-38	25	Dimmable White	3000	130	134	90	134



UNIT: mm



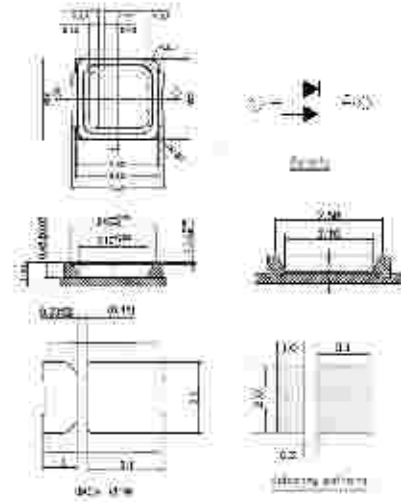
1W / 54V

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	OCT (°)	Luminous Flux (lm)	Luminous Flux (lm)	CRa (lm)	Luminous Efficacy (lm/W)
87-283TRK5-H1714055023/27	2.8x3.5x0.7	50-55	17	Luxium White	2700	140	144	90	144
87-283TRK5-H10055023/27	2.8x3.5x0.7	50-55	17	Warm White	3000	140	148	90	152
87-283TRK5-H10055023/27	2.8x3.5x0.7	50-55	17	Warm White	3000	150	150	90	150
87-283TRK5-H40055023/27	2.8x3.5x0.7	50-55	17	Neutral White	3000	150	140	90	140
87-283TRK5-H10055023/27	2.8x3.5x0.7	50-55	17	Dimmable White	3000	150	150	90	150
87-283TRK5-H10055023/27	2.8x3.5x0.7	50-55	17	Dimmable White	3700	150	170	90	160
87-283TRK5-H10055023/27	2.8x3.5x0.7	50-55	17	Dimmable White	3700	150	160	90	160

Lighting | 3030(XI3030)



UNIT : mm

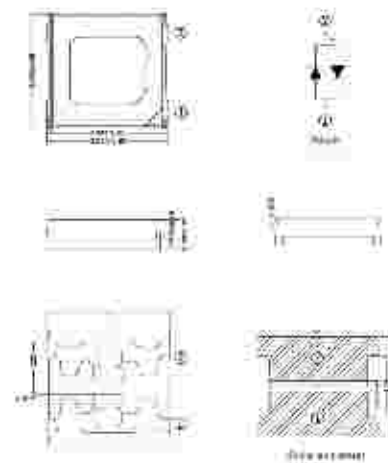


0.2W / 3V

Product	Size (LxW)(mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRS (mm)	Luminous Efficacy (lm/W)
XE3030P1PKK-5M20J230A021	3.0x3.0x0.7	2.9-2.9	65	Warm White	3000	27	41	60	215
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.7	2.9-2.9	65	Neutral White	4000	28	42	60	225
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.7	2.9-2.9	65	Cool White	5000	28	42	60	230
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.7	2.9-2.9	65	Cool White	5700	29	43	60	235
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.7	2.9-2.9	65	Cool White	6500	29	43	60	240



UNIT : mm



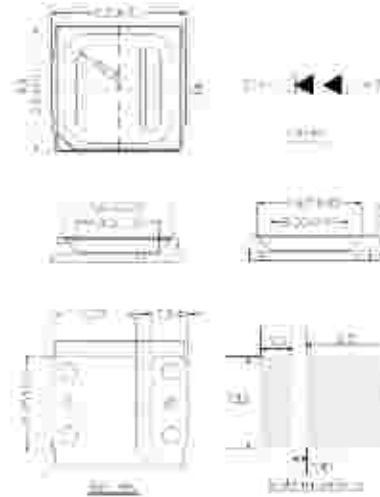
0.2W / 3V / Flip-Chip

Product	Size (LxW)(mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRS (mm)	Luminous Efficacy (lm/W)
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.8	2.9-2.9	65	Warm White	3000	28	42	60	220
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.8	2.9-2.9	65	Neutral White	4000	28	42	60	230
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.8	2.9-2.9	65	Cool White	5000	28	42	60	235
XE3030P1PKK-5M20J230A1021	3.0x3.0x0.8	2.9-2.9	65	Cool White	6000	28	42	60	240

Lighting | 3030(XI3030)



UNIT : mm

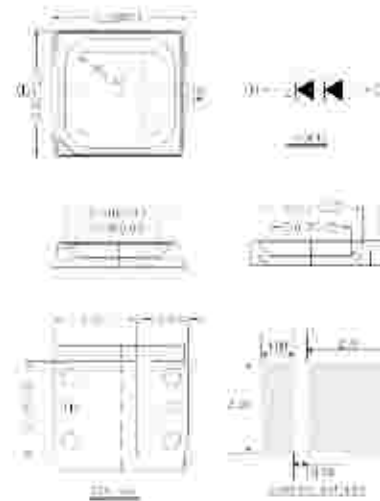


1W / 6V / CRI70

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRI (min)	Luminous Efficacy (lm/W)
XI3030E-UK-E-H1215000215/2T	3.0x3.2x0.8	5.4-5.8	100	Warm White	2700	150	155	70	172
XI3030E-UK-E-H1115000215/2T	3.0x3.2x0.8	5.4-5.8	100	Warm White	3000	150	160	70	179
XI3030E-UK-E-H0515000215/2T	3.0x3.2x0.8	5.4-5.8	100	Warm White	3000	150	165	70	183
XI3030E-UK-E-H0115000215/2T	3.0x3.2x0.8	5.4-5.8	100	Neutral White	4000	150	170	70	191
XI3030E-UK-E-H0015000215/2T	3.0x3.2x0.8	5.4-5.8	100	Cool White	5000	150	170	70	190
XI3030E-UK-E-H0415000215/2T	3.0x3.2x0.8	5.4-5.8	100	Cool White	5000	150	175	70	199
XI3030E-UK-E-H0315000215/2T	3.0x3.2x0.8	5.4-5.8	100	Cool White	5000	150	180	70	203



UNIT : mm



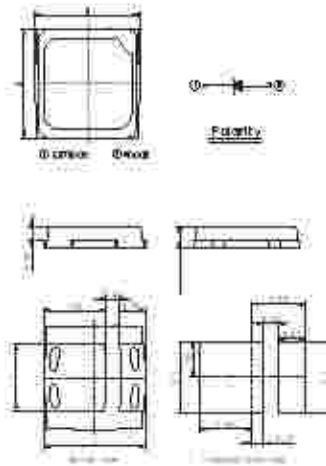
1W / 6V / CRI80

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRI (min)	Luminous Efficacy (lm/W)
XI3030P-UK-CO-H1113500215/2N	3.0x3.5x0.85	5.4-5.8	100	Warm White	2700	130	135	80	148
XI3030P-UK-CO-H0513500215/2N	3.0x3.5x0.85	5.4-5.8	100	Warm White	3000	130	140	80	153
XI3030P-UK-CO-H0113500215/2N	3.0x3.5x0.85	5.4-5.8	100	Neutral White	4000	130	150	80	167
XI3030P-UK-CO-H0013500215/2N	3.0x3.5x0.85	5.4-5.8	100	Cool White	5000	130	150	80	166
XI3030P-UK-CO-H0114500215/2N	3.0x3.5x0.85	5.4-5.8	100	Cool White	5700	130	150	80	168
XI3030P-UK-CO-H0014500215/2N	3.0x3.5x0.85	5.4-5.8	100	Cool White	6000	130	155	80	173

Lighting I 3030(XI3030)



UNIT: mm

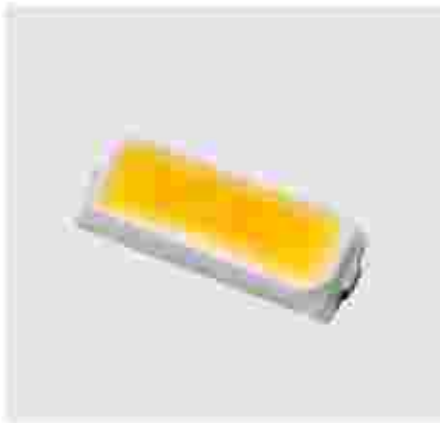


0.5W

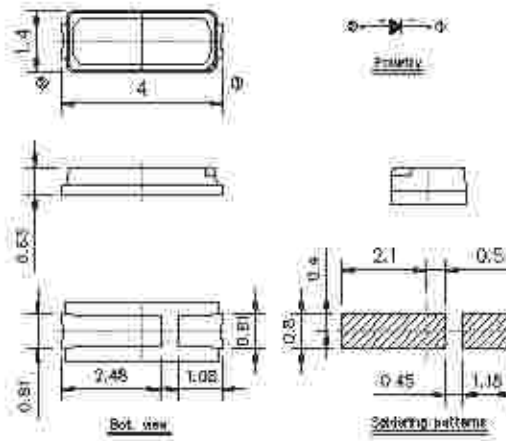
Part No.	Size (LxWxH)mm	Forward Voltage (V)	Forward Current (mA)	Color	Peak Wavelength (nm)	Net Luminous Flux(m) Radiant Power(mW)
XI3030P/D/IC-D1C3P3M1C30T1E1G2M	3.0x3.0x0.63	2.8-3.7	150	Green	515-530	30 lm
XI3030P/D/IC-D1C3P3M1C30T1E1O2M	3.0x3.0x0.63	1.5-2.6	150	Orange	605-620	24 lm
XI3030P/D/IC-D1C3P3M1C30T1E1R2M	3.0x3.0x0.63	1.5-2.8	150	Red	615-630	16 lm
XI3030P/D/IC-D1C3P3M1C30T1E1B2M	3.0x3.0x0.63	2.5-3.3	150	Blue/White	450-460	185 lm
XI3030P/D/IC-P45T5Y7E312712M2M	3.0x3.0x0.63	2.1-2.7	150	Deep Red	645-675	100 mW
XI3030P/D/IC-P156P5K11E2512132M	3.0x3.0x0.63	1.8-2.0	150	Far Red	715-745	20 mW

Lighting

Lighting | 4014(50-217S)



UNIT: mm

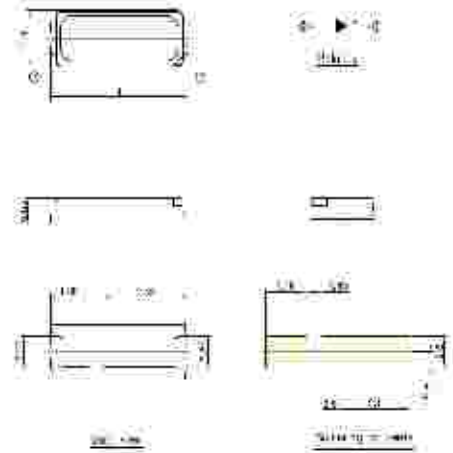


0.2W / 3V

Product	Size (LxWxH:mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRF (min)	Luminous Efficacy (lm/W)
50-217S-WW-B400022V952M21	4.1x1.4x0.8	2.7-3.2	50	Warm White	2000	30	33	80	110
50-217S-WW-B400022V952M21	4.1x1.4x0.8	2.7-3.2	50	Warm White	2000	30	33	80	110
50-217S-WW-B400022V952M21	4.0x1.4x0.8	2.7-3.2	50	Neutral White	3000	32	34	80	100
50-217S-WW-B400022V952M21	4.0x1.4x0.8	2.7-3.2	50	Neutral White	4000	32	34	80	100
50-217S-WW-B500022V952M21	4.0x1.4x0.8	2.7-3.2	50	Cool White	5000	30	32	80	100
50-217S-WW-B500022V952M21	4.1x1.4x0.8	2.7-3.2	50	Cool White	5000	30	33	80	100
50-217S-WW-B500022V952M21	4.0x1.4x0.8	2.7-3.2	50	Cool White	5000	32	34	80	100



UNIT: mm



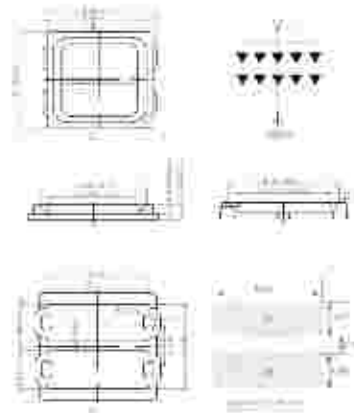
0.5W / 3V

Product	Size (LxWxH:mm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRF (min)	Luminous Efficacy (lm/W)
50-217S-WW-SC-H20004215Q1	4.0x1.4x0.8	2.8-3.4	100	Warm White	2700K	55	57	80	127
50-217S-WW-SC-H20004215Q1	4.0x1.4x0.8	2.8-3.4	100	Warm White	3000K	50	52	80	125
50-217S-WW-SC-H20004215Q1	4.0x1.4x0.8	2.8-3.4	100	Neutral White	4000K	45	47	80	145
50-217S-WW-SC-H20004215Q1	4.1x1.4x0.8	2.8-3.4	100	Cool White	5000K	45	47	80	145
50-217S-WW-SC-H20004215Q1	4.0x1.4x0.8	2.8-3.4	100	Cool White	5700K	45	47	80	149
50-217S-WW-SC-H20004215Q1	4.0x1.4x0.8	2.8-3.4	100	Cool White	6500K	45	47	80	145

Lighting | 5050(X15050)



UNIT: mm



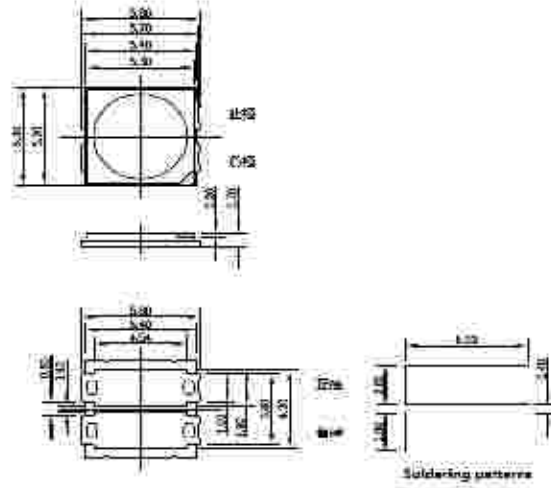
1W / 6V

Product	Size (μW/mm²)	Forward Voltage (V)	Forward Current (mA)	Color	CRI (Ra)	Luminous Flux (lm)	Luminous Flux (Typ.)	CR (min)	Luminous Efficacy (lm/W)
X15050E-1H2050Z1W2H	5.25-8.0 T	2.2-3.0	100	Warm White	2700	200	-	70	-
X15050E-1H2050Z1H2H	5.25-8.0 T	2.2-3.0	100	Warm White	3000	210	-	70	-
X15050E-1H5250Z1W2H	5.25-8.0 T	2.2-3.0	100	Warm White	3800	220	-	70	-
X15050E-1H5250Z1H2H	5.25-8.0 T	2.2-3.0	100	Neutral White	4000	230	-	70	-
X15050E-1H5250Z1W2H	5.25-8.0 T	2.2-3.0	100	Cool White	5000	230	-	70	-
X15050E-1H5250Z1H2H	5.25-8.0 T	2.2-3.0	100	Cool White	5700	230	-	70	-
X15050E-1H5250Z1W2H	5.25-8.0 T	2.2-3.0	100	Cool White	6500	225	-	70	-

Lighting | 5050(X15050)

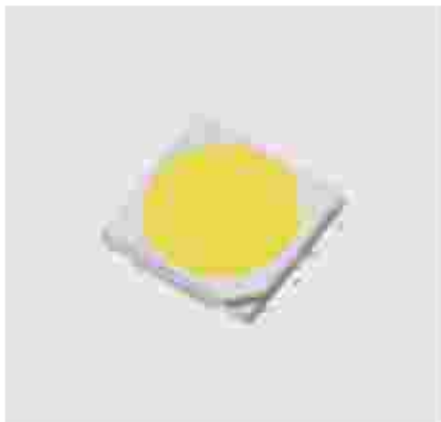


UNIT : mm

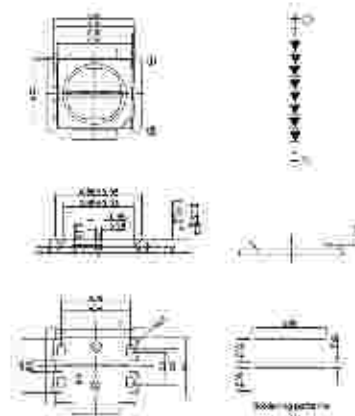


5W / 6V

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ.)	CR (mm)	Luminous Efficiency (lm/W)
X15050(X150)50-HA0001(727102N)	5.9x5.9x0.7	6.0~7.0	150	Neutral White	4000	700	110	70	140
X15050(X150)50-HA0002(727102N)	5.9x5.9x0.7	6.0~7.0	150	Clear White	4000	650	100	70	130
X15050(X150)50-HA0003(727102N)	5.9x5.9x0.7	6.0~7.0	150	U-Cool White	6000	600	140	70	140



UNIT : mm



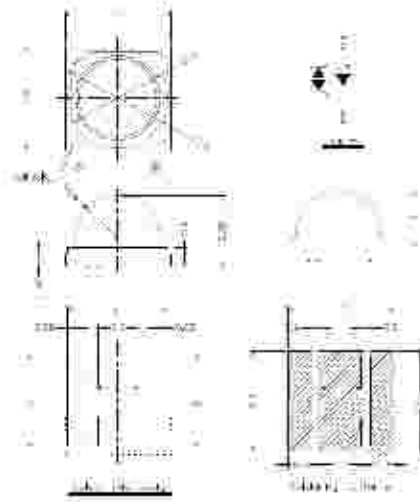
5W / 24V

Product	Size (LxWxHmm)	Forward Voltage (V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ.)	CR (mm)	Luminous Efficiency (lm/W)
X15050(X150)50-HA0004(727102N)	5.2x5.2x0.7	22~26	180	U-Vivid White	3700	700	-	70	-
X15050(X150)50-HA0005(727102N)	5.2x5.2x0.7	22~26	180	U-Cool White	3800	700	-	70	-
X15050(X150)50-HA0006(727102N)	5.2x5.2x0.7	22~26	180	U-Warm White	3500	700	-	70	-
X15050(X150)50-HA0007(727102N)	5.2x5.2x0.7	22~26	180	U-Neutral White	4000	700	-	70	-
X15050(X150)50-HA0008(727102N)	5.2x5.2x0.7	22~26	180	U-Cool White	5000	700	-	70	-
X15050(X150)50-HA0009(727102N)	5.2x5.2x0.7	22~26	180	U-Cool White	5700	700	-	70	-
X15050(X150)50-HA0010(727102N)	5.2x5.2x0.7	22~26	180	U-Cool White	6500	700	-	70	-

Lighting | 3535



UNIT: mm



1W / 3V

Product	Size (LxWxH:mm)	Forward Voltage(V)	Forward Current(mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CR (min)
EL5WF-J11C1-6FRGS-C6500	3.5x3.5x2.35	2.85-3.55	350	○ Cool White	6500	158	166	70
EL5WF-J11C1-6FRGS-C7000	3.5x3.5x2.35	2.92-3.57	350	○ Cool White	7000	158	169	70
EL5WF-J11C1-6FRGS-C8000	3.5x3.5x2.35	2.92-3.58	350	○ Cool White	8000	158	168	70
EL5WF-J11M1-6FRGS-C4000	3.5x3.5x2.35	2.85-3.55	350	○ Neutral White	4000	145	150	70
EL5WF-J11M1-6FRGS-C4500	3.5x3.5x2.35	2.85-3.55	350	○ Warm White	4500	135	148	70
EL5WF-J11M1-6FRGS-C5000	3.5x3.5x2.35	2.85-3.55	350	○ Warm White	5000	125	146	70
EL5WF-J11M1-6FRGS-C2700	3.5x3.5x2.35	2.92-3.58	350	○ Warm White	2700	130	145	70

• Above spec is based on 65°C

2W / 3V

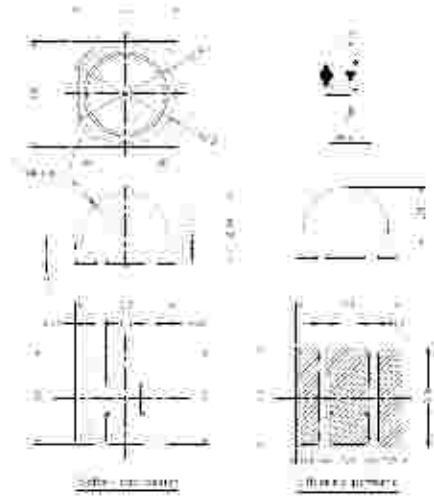
Product	Size (LxWxH:mm)	Forward Voltage(V)	Forward Current(mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CR (min)
EL5WF-J11C1-6FRGS-C6500	3.5x3.5x2.35	2.85-3.80	700	○ Cool White	6500	283	304	70
EL5WF-J11C1-6FRGS-C7000	3.5x3.5x2.35	2.85-3.80	700	○ Cool White	7000	289	304	70
EL5WF-J11C1-6FRGS-C8000	3.5x3.5x2.35	2.92-3.88	700	○ Cool White	8000	289	304	70
EL5WF-J11M1-6FRGS-C4000	3.5x3.5x2.35	2.85-3.80	700	○ Neutral White	4000	280	278	70
EL5WF-J11M1-6FRGS-C4500	3.5x3.5x2.35	2.85-3.80	700	○ Warm White	4500	248	282	70
EL5WF-J11M1-6FRGS-C5000	3.5x3.5x2.35	2.85-3.80	700	○ Warm White	5000	233	282	70
EL5WF-J11M1-6FRGS-C2700	3.5x3.5x2.35	2.92-3.85	700	○ Warm White	2700	240	282	70

• Above spec is based on 65°C

Lighting | 3535



UNIT : mm



3W / 3V

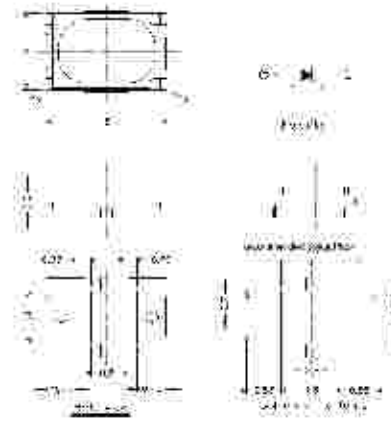
Product	Size (LxWxH/mm)	Forward Voltage(V)	Forward Current(mA)	Color	CCT (K)	Luminous Flux (lm)	Luminous Flux (Typ)	CRI (min.)
EL5WP-J11C1-6PFGS-C6500	3.5x3.5x2.35	2.45~3.55	1000	C Cool White	6500	378	425	75
EL5WP-J11C1-6PFGS-C7000	3.5x3.5x2.35	2.45~3.55	1000	C Cool White	7000	378	415	75
EL5WP-J11C1-6PFGS-C7500	3.5x3.5x2.35	2.45~3.55	1000	C Cool White	7500	378	405	75
EL5WP-J11V1-6PFGS-C8000	3.5x3.5x2.35	2.45~3.55	1000	C Warm White	8000	342	391	75
EL5WP-J61M1-6PFGS-C3500	3.5x3.5x2.35	2.45~3.55	1000	C Warm White	3500	323	348	75
EL5WP-J61M1-6PFGS-C4000	3.5x3.5x2.35	2.45~3.55	1000	C Warm White	4000	323	348	75
EL5WP-J61M1-6PFGS-C7700	3.5x3.5x2.35	2.45~3.55	1000	C Warm White	7700	323	338	75

* Above rated is based on 25°C

Lighting | 3020



UNIT: mm

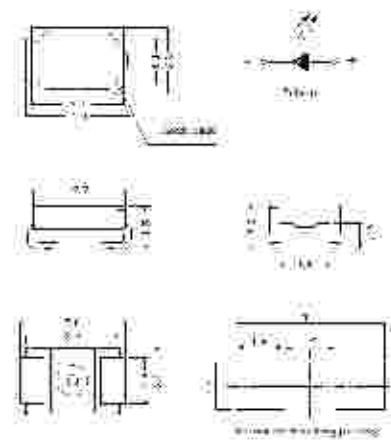


0.2W / 3V

Product	Size (LxW)(mm)	Forward Voltage(V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)	CR _a (nm)	Luminous Efficacy (lm/W)
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Warm White	2700	18	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Warm White	3000	17	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Warm White	3000	17	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Warm White	4000	19	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Cool White	5000	18	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Cool White	6000	18	90	90
45-2159K20-H2727L3M4B2250T	3.0x2.5x0.8	2.9~3.6	50	Cool White	6500	18	90	90



UNIT: mm



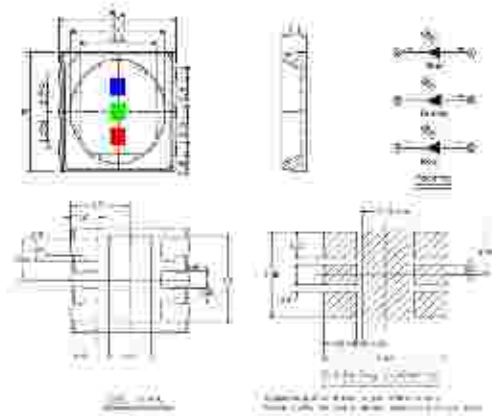
0.1W / 3V

Product	Size (LxW)(mm)	Forward Voltage(V)	Forward Current (mA)	Color	CCT (K)	Luminous Flux (lm)
45-2159C-401V1 CCT4PM	3.0x2.5x1.3	1.25~2.05	20	Yellow	525.0~545.0nm	850lm
45-2159C-401V1 CCT4PM	3.0x2.5x1.3	1.25~2.05	20	Red	611.0~635.0nm	450lm
45-2159C-401V1 CCT4PM	3.0x2.5x1.3	1.25~2.05	20	Blue	455~472nm	220lm

Lighting | RGB



UNIT: mm



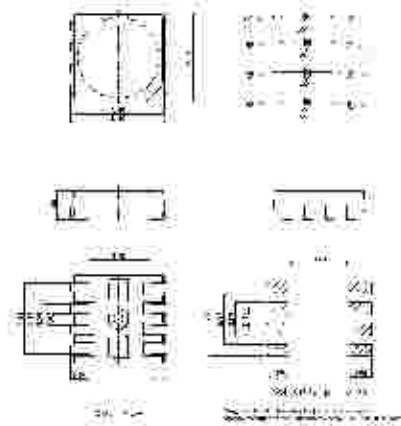
0.6W / 3V

Product	Size (LxWxH:mm)	Forward Voltage(V)	Forward Current (mA)	Color	CCF (f)	Luminous Flux (Min)	Luminous Flux(Typ)
555017RGB30-RUBMT	5.4x5.0x1.1	1.9-2.8	100	Red	511-528nm	12.3lm	20lm
	5.4x5.0x1.1	2.4-3.1	100	Green	518-535nm	12.3lm	48lm
	5.4x5.0x1.1	2.1-3.1	100	Blue	462-475nm	8.5lm	8.5lm

Lighting | RGBW



UNIT: mm



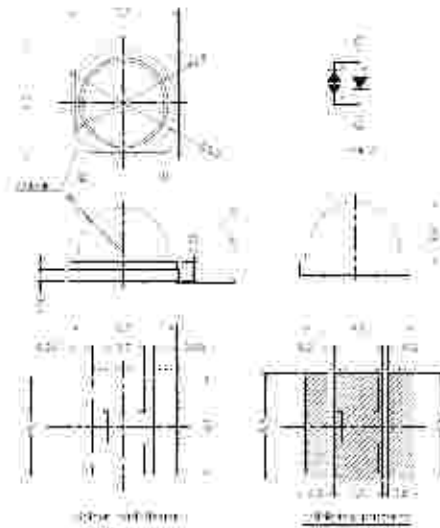
0.3W / 3V

Product	Size (LxWxH:mm)	Forward Voltage(V)	Forward Current (mA)	Color	CCF (f)	Luminous Flux (Min)	Luminous Flux(Typ)
00010RGBW-A100E1	5.4x5.0x1.1	2.1-2.8	100	Red	511-528nm	300lmcd	500lmcd
	5.4x5.0x1.1	3.0-3.8	100	Green	525-538nm	1100lmcd	1100lmcd
	5.4x5.0x1.1	3.1-3.8	100	Blue	462-475nm	1800lmcd	3000lmcd
	5.4x5.0x1.1	3.2-3.8	100	Common white	4700	900lmcd	1100lmcd

Horticulture Lighting | Ceramics



UNIT: mm



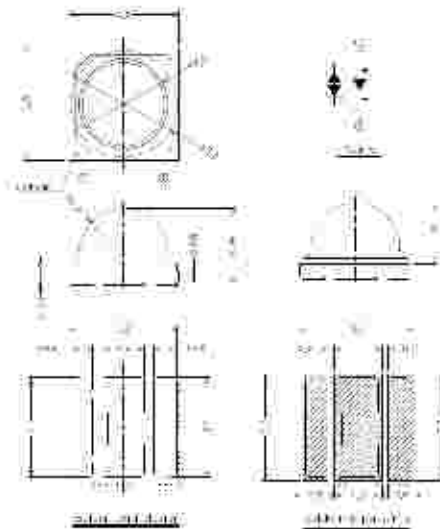
3535

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	Forward Current (mA)	View Angle	Color	Peak Wavelength (nm)	Radiometric Power (mW) Typ	SPF (umol/s)	FPE (umol/s)
ELSW-01E1-CLP1M-4035A	3.5x3.5x2.0	1	1.75-2.05	350	120°	● Deep Red	645-675	275	1.51	2.1
ELSW-02E1-CLP1M-4035A	3.5x3.5x2.0	1	1.75-2.05	350	120°	● Deep Red	645-675	480	2.53	3.21
ELSW-03E1-CLP1M-0845R	3.5x3.5x2.0	1	2.05-2.35	350	120°	● Royal Blue	445-460	500	2.87	3.20

* Above spec is based on 60°C



UNIT: mm



3535

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	Forward Current (mA)	View Angle	Color	Peak Wavelength (nm)	Radiometric Power (mW) Typ	SPF (umol/s)	FPE (umol/s)
HPN053003 (12-N3R0560HX24705-R)(E1)	3.5x3.5x2.35	2	1.75-2.05	700	120°	● Deep Red	645-660	1070	5.85	5.87

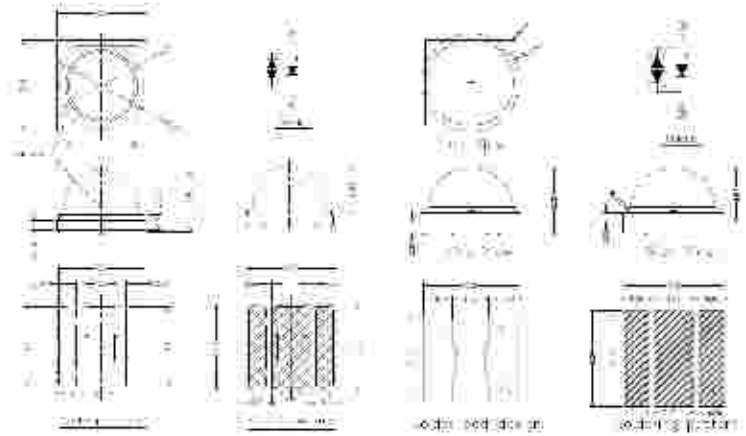
Horticulture Lighting | Ceramics



UNIT: mm

EL5WF

EL5WNS



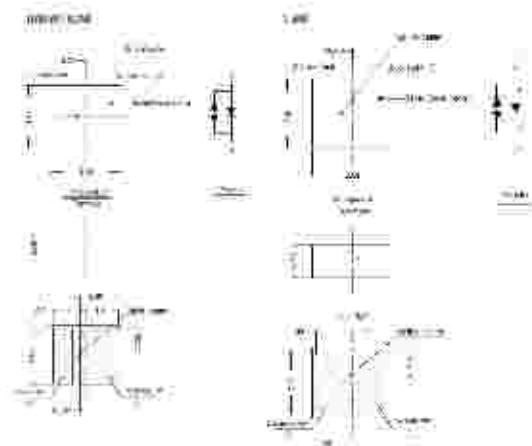
3535

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	Forward Current (mA)	View Angle	Color	Peak Wavelength (nm)	Radiant Power (mW) Typ	PPF (µmol/s)	PPF (µmol/W)
EL5WF-541L3-6FRHM-DB46R	25x25x2.5	3	3.25	700	120°	Royal Blue	445-460	1500	5.28	2.51
EL5WNS-511E2-3VPHM-AQ30R	35x35x2.5	3	2.22	700	120°	Deep Red	645-670	1070	5.38	3.68

UV-I/II/VA



UNIT : mm



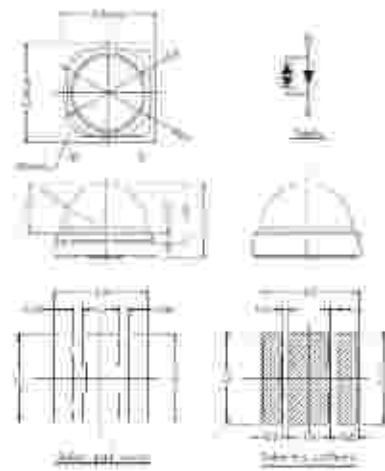
2016

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW) Typ
ELU420 (RODB-F8D75O43)0020-VA1M	2.54x1.64x0.75	0.08	3.0-4.0	120°	20	390-410	20
ELU420 (RODB-F8D80530)0020-VA1M	2.54x1.64x0.75	0.08	3.0-4.0	120°	20	390-400	20
ELU420 (RODB-F8D80530)0020-VA1M	2.54x1.64x0.75	0.08	3.0-4.0	120°	20	390-400	20
ELU420 (RODB-F8D75O43)0020-VA1M	2.54x1.64x0.75	0.08	3.0-4.0	120°	20	400-410	20
ELU420 (RODB-F8D75O43)0020-VA21M	2.54x1.64x0.75	0.2	3.0-4.0	120°	50	390-410	70
ELU420 (RODB-F8D80530)0020-VA21M	2.54x1.64x0.75	0.2	3.0-4.0	120°	50	390-400	70
ELU420 (RODB-F8D80530)0020-VA21M	2.54x1.64x0.75	0.2	3.0-4.0	120°	50	390-400	70
ELU420 (RODB-F8D75O43)0020-VA21M	2.54x1.64x0.75	0.2	3.0-4.0	120°	50	400-410	70
ELU420 (RODB-F8D75O43)0020-VA1M	2.54x1.64x0.75	1.8	3.0-4.0	120°	500	390-410	500
ELU420 (RODB-F8D80530)0020-VA1M	2.54x1.64x0.75	1.8	3.0-4.0	120°	500	390-400	500
ELU420 (RODB-F8D80530)0020-VA1M	2.54x1.64x0.75	1.8	3.0-4.0	120°	500	390-400	500
ELU420 (RODB-F8D75O43)0020-VA1M	2.54x1.64x0.75	1.8	3.0-4.0	120°	500	400-410	500

UV-I UVA



UNIT : mm

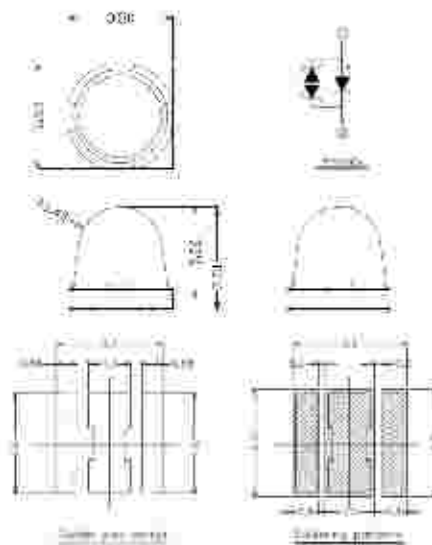


3635

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux(mW) (%)
ELVA363504B-P070L0004000-VDFM	3.5x3.5x2.25	1.8	3.5	120°	500	360-370	1000
ELVA363504B-F0080L22380000-VDFM	3.5x3.5x2.25	1.8	3.5	120°	500	360-380	1000
ELVA363504B-F0080L22380000-VDFM	3.5x3.5x2.25	1.8	3.5	120°	500	380-420	1000
ELVA363504B-F0180L22380000-VDFM	3.5x3.5x2.25	1.8	3.5	120°	500	400-410	1000



UNIT : mm



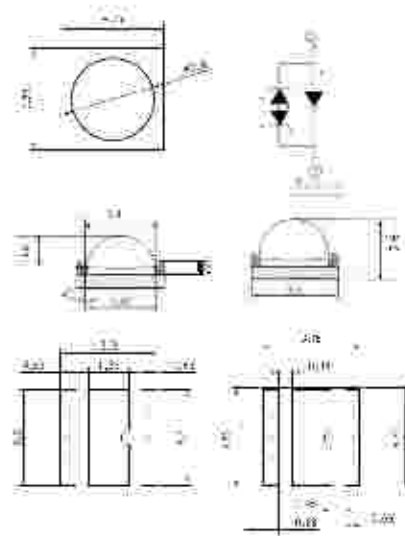
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Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux(mW) (%)
ELVA363602-F0070L12380000-VDFM	3.5x3.3x3.01	4	3.2-4.0	50°	500	360-370	800
ELVA363602-F0080L22380000-VDFM	3.5x3.3x3.01	4	3.2-4.0	50°	500	360-390	1000
ELVA363602-F0100L22380000-VDFM	3.5x3.3x3.01	4	3.2-4.0	50°	500	380-420	1000
ELVA363602-F0180L22380000-VDFM	3.5x3.3x3.01	4	3.2-4.0	50°	500	400-410	1000

UV EDA



UNIT : mm

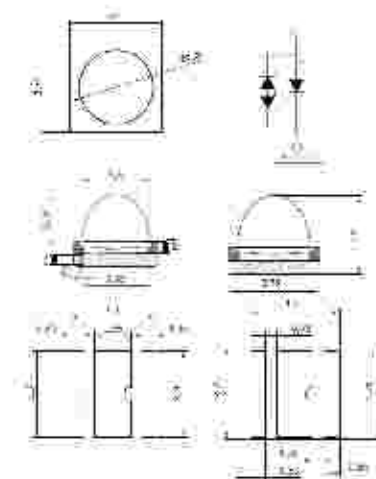


3535

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW) Typ
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.4	4	4	100°	100	360-375	800
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.4	4	4	60°	1000	360-375	1300
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.4	4	4	60°	1000	390-400	1300
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.4	4	4	60°	1000	390-410	1300



UNIT : mm



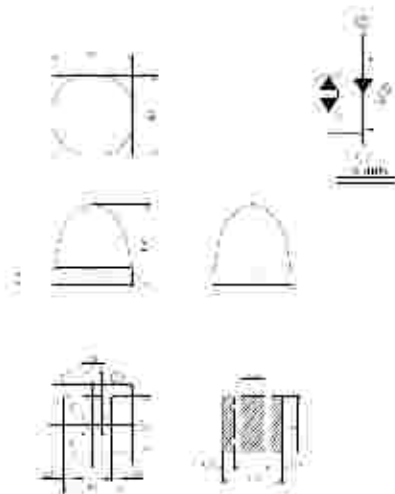
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Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW) Typ
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.2	4	4	30°	200	360-375	800
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.2	4	4	60°	1000	360-375	1300
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.2	4	4	30°	1000	390-400	1300
ELUAS20H1L5-P00RUC08873J-VA10	5.75x5.75x2.2	4	4	30°	1000	390-410	1300

UV 4545



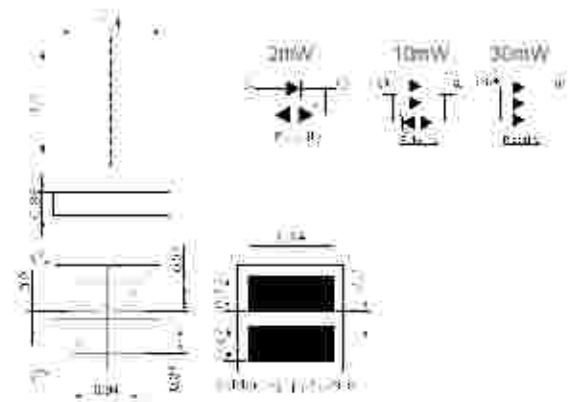
UNIT : mm



4545

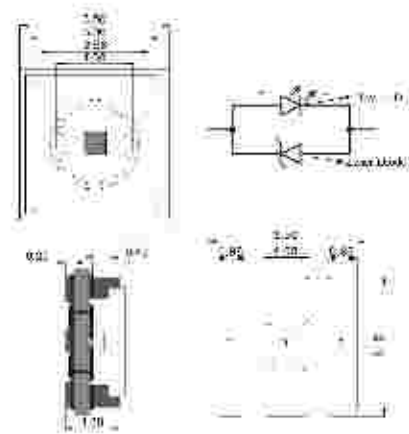
Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Product Efficacy (lm/W)
ELVA4545CG3P5000U224150S-V01M	4.5x4.5x0.57	1.0	3.5	30°	500	390~470	80
ELVA4545CG3P5000U224150S-V01M	4.5x4.5x0.57	1.5	3.5	30°	500	390~480	100
ELVA4545CG3P5000U224150S-V01M	4.5x4.5x0.57	1.5	3.5	30°	500	390~480	100
ELVA4545CG3P5000U224150S-V01M	4.5x4.5x0.57	1.5	3.5	30°	500	400~480	100

UV I UVC



1414

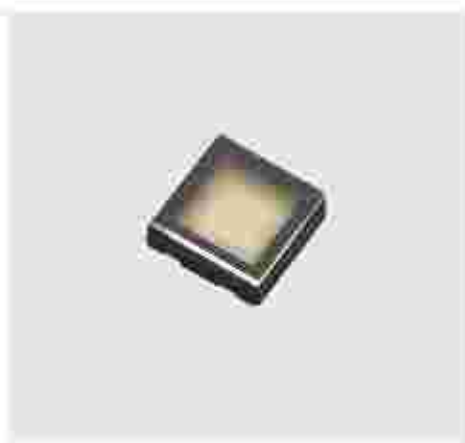
Product	Dimension (mm)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW)
UVD1414C20M15HU0CT000004X70245-CT	1.4x1.4x0.35	2.5~3.0	45°	20	270~285	2
UVD1414C20M15HU0CT000004X70245-CT	1.4x1.4x0.35	2.5~3.0	45°	100	270~285	10



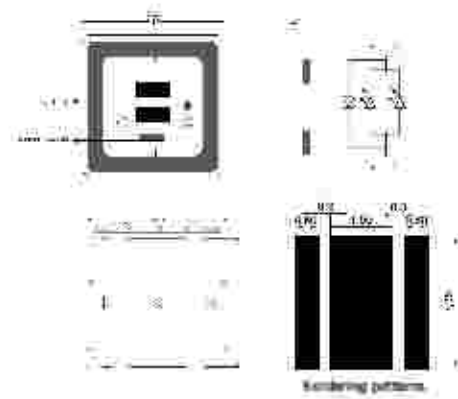
3535

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW)
ELLUC3535AUB-P.T388Q00077000-BA1D	3.5x3.5x1.3	0.13	1~2.5	120°	20	270~285	<2>

UV E EVC

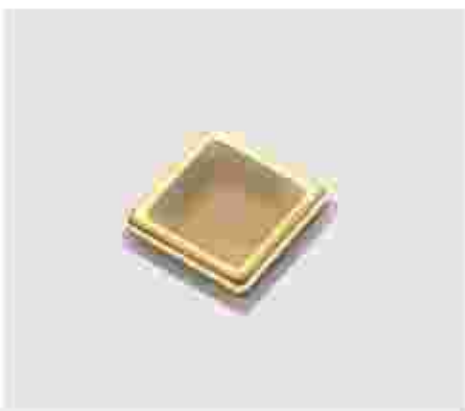


UNIT : mm

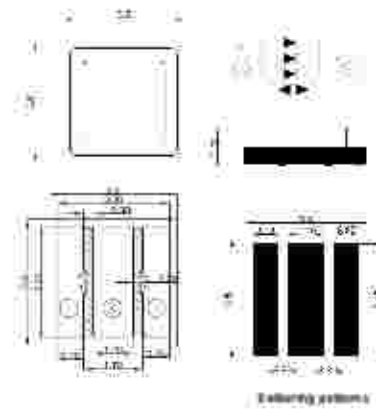


3635

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Mount. Pin(W) Typ
ELL1C8305NUS-P708247090.000-F23Q	3.45x3.45x1.13	0.7	3-3.5	120°	100	270-285	30



UNIT : mm



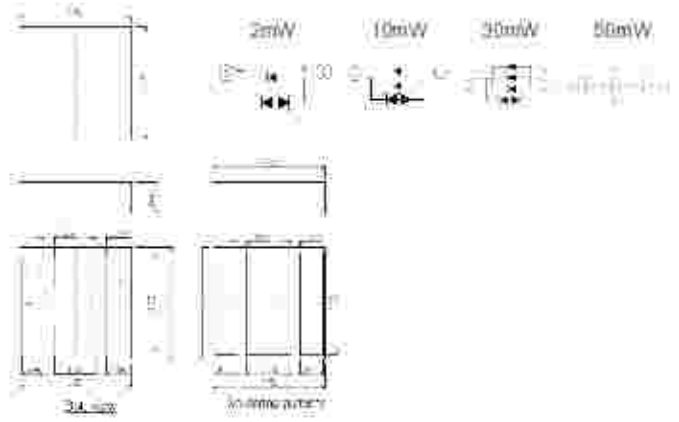
3635

Product	Dimension (mm)	Power (W)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Mount. Pin(W) Typ
ELL1C8305NUS-P0708247090.000-F23Q	3.5x3.5x1.13	2.4	3-3.5	120°	300	270-285	30

UV-I UVG



UNIT : mm



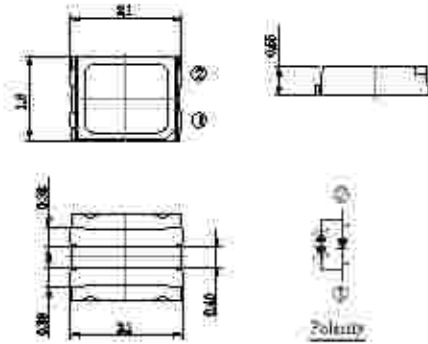
3535:

Product	Dimension (mm)	Forward Voltage (V)	View Angle	Forward Current (mA)	Peak Wavelength (nm)	Radiant Flux (mW) Typ
UVI0303C20115-HUC7085X1X30020-17	3.5x3.5x1.5	3.0-3.0	100°	30	270-280	2
UVI0303C20135-HUC7085X1X30020-17	3.5x3.5x1.5	3.0-3.0	100°	100	270-280	10
UVI0303C20155-HUC7085X1X30020-17	3.5x3.5x1.5	3.0-3.0	100°	300	270-280	30

Flash LED | 2016 series | PLCC



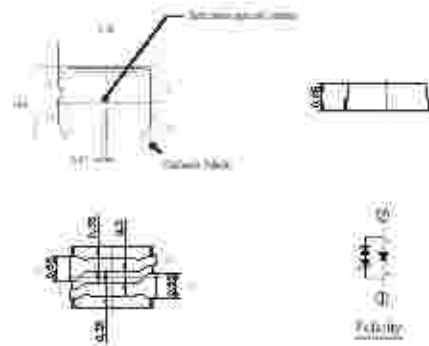
UNIT: mm



Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	IF (mA)	CRI
FP32186F190A-B300021400830E-2T	3.4x1.9x0.65	< White	5000-10000	320	2.80-3.50	1000	<



UNIT: mm

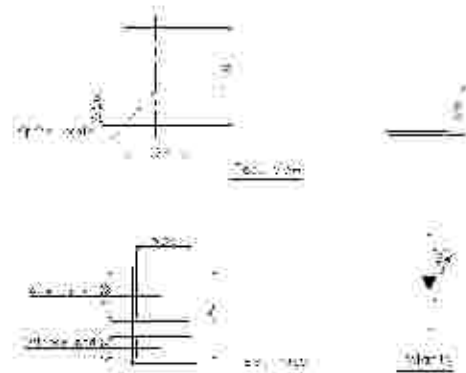


Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	IF (mA)	CRI
FP22186F190A-B30002400830E-2T	3.3x1.9x0.65	< White	5000-10000	310	2.80-3.50	1000	<

Flash LED | 1610 series | Ceramic



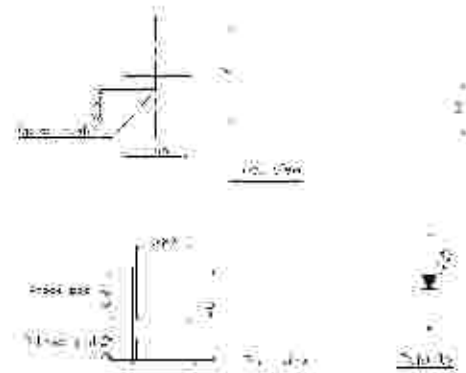
UNIT: mm



Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	IF (mA)	CRI
FC3910HT13HP-B0060-4320-88B-2T	1.56x1.3x0.78	White	6000-6500	270	2.80-3.50	1000	>
FC4610HT13HP-A0020-4320-88B-2T	1.56x1.3x0.78	White	4000-4500	280	2.80-3.50	1000	>80



UNIT: mm

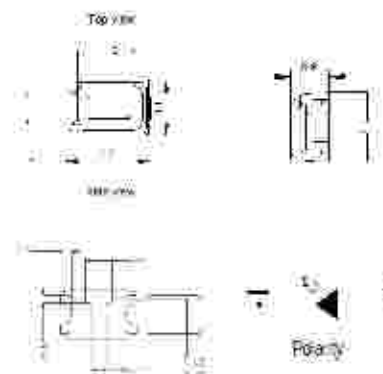


Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	IF (mA)	CRI
FC610LFC04P-6400-2400-839E-2T	1.56x1.0x0.6	White	4500-5500	270	2.80-3.50	1000	>

Flash LED | 1610 series | PLCC



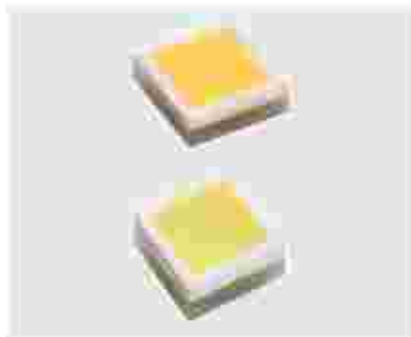
UNIT: mm



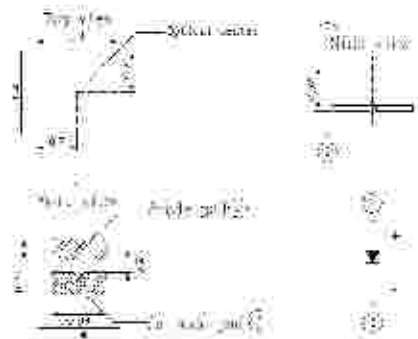
Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	IF (mA)	CRI
FP30(L)W10SA-24500612790-2T	1.6x1.1x0.6	White	4500-5500	85	2.25-3.05	200	>85

Flash LED

Flash LED | 1414 series | Ceramic



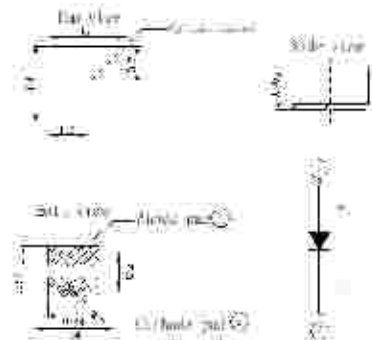
UNIT: mm



Product	Dimension (mm)	Color	COE	Luminous Flux (typ)	Forward Voltage (V)	IF (mA)	CR1
FC1414GF130M-850002332830B-3T	1.4x1.4x0.75	White	5000-8000	120	2.80-3.00	1000	-



UNIT: mm

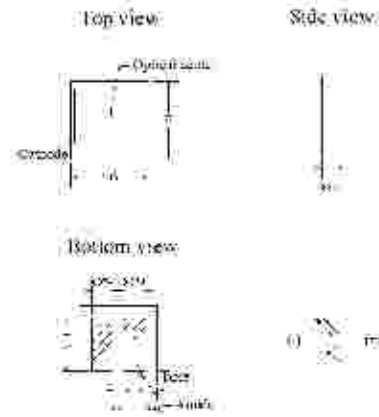


Product	Dimension (mm)	Color	COE	Luminous Flux (typ)	Forward voltage (V)	IF (mA)	CR1
FC1414GF1DHF-850002332830B-3T	1.4x1.4x0.75	White	5000-8000	120	2.80-3.00	1000	-

Flash LED | 1414 series | CSP



(UNIT) : mm

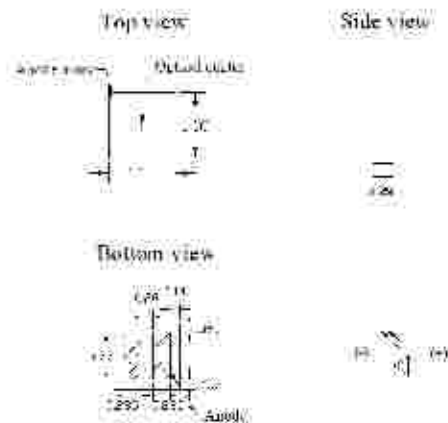


Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	I _F (mA)	CRI
Flash LED CSP 4000K (C4000E-1T)	1.4 x 1.4 x 0.2	White	4000-4500	300	2.85-3.05	1000	-
Flash LED CSP 5000K (C5000E-1T)	1.4 x 1.4 x 0.2	White	5000-5500	300	2.85-3.05	1000	85
Flash LED CSP 6500K (C6500E-1T)	1.4 x 1.4 x 0.2	White	6500-7500	200	2.85-3.05	1000	90

Flash LED | 1111 series | CSP



(UNIT) : mm

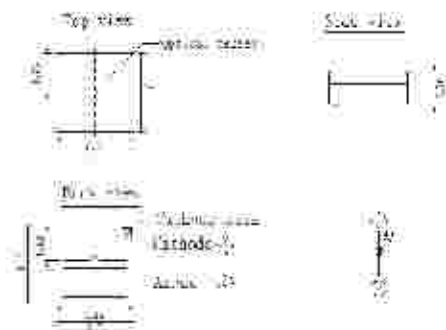


Product	Dimension (mm)	Color	CCT	Luminous Flux (Typ.)	Forward Voltage (V)	I _F (mA)	CRI
Flash LED CSP 4000K (C4000E-1T)	1.1 x 1.1 x 0.2	White	4000-4500	200	2.85-3.05	1000	-

Flash LED | 1717series | Ceramic



UNIT: mm

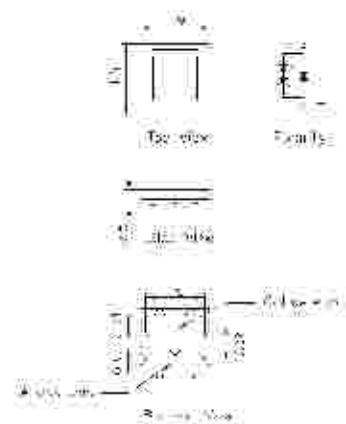


Product	Dimension (mm)	Color	CCT	Luminous Flux(Typ.)	Forward Voltage (V)	IF (mA)	CRI
FD1717DFLHE-F00603M3250E-27	1.7x1.7x0.5	Yellow	3000-3500	375	2.85-3.25	1000	-
FD1717DFLHE-F00603M3250E-27	1.7x1.7x0.5	White	4000-5000	360	2.95-3.25	1000	>80

Flash LED | 1919series | EMC



UNIT: mm

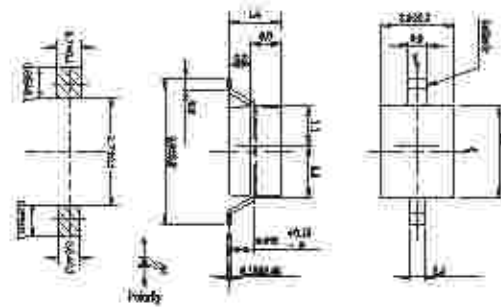


Product	Dimension (mm)	Color	CCT	Luminous Flux(Typ.)	Forward Voltage (V)	IF (mA)	CRI
FD1919DFLHE-F00603M3250E-27	1.9x1.9x0.5	Yellow	4000-5000	510	3.25-4.25	1500	-

SMD LED | Subminiature LED Lamps (Leadframe)



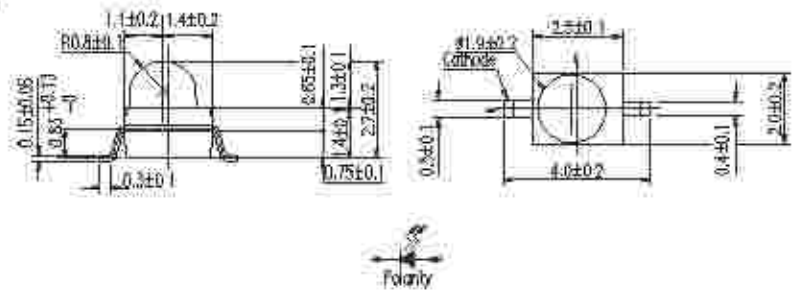
UNIT : mm



Product	Size (LxWxH mm)	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / DIE	I _f (mcd) min.	I _f (mcd) typ.	I _f (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
3B-315DFG2535-A2TR8	2.5x2.7x1.4	● Deep Red	630	20	27	-	1.7	2	2.4	20
3B-315VCG2535-A3TR8	2.5x2.7x1.4	● Yellow	580	24	32	-	2	2.4	3	20
3B-315YCG2535-B3TR8	2.5x2.7x1.4	● Super Yellow Green	570	10	27	-	1.7	2	2.4	20



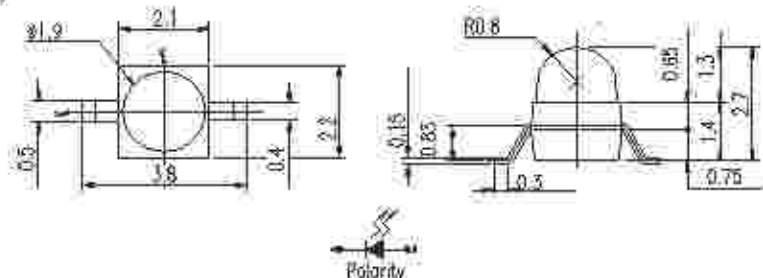
UNIT : mm



Product	Size (LxWxH mm)	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / DIE	I _f (mcd) min.	I _f (mcd) typ.	I _f (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
3E-315VCG2535-E4TR7	2.6x2.6x2.7	● Brilliant Yellow Green	570	200	500	-	-	2	2.4	20
3E-315DFG2535-A4TR7	2.6x2.6x2.7	● Hyper Red	634	600	1000	-	-	2	2.4	20
3E-315VCG2535-A6TR7	2.6x2.6x2.7	● Super Yellow	580	800	1400	-	-	2	2.4	20
3E-315VCG2535-A8TR7	2.6x2.6x2.7	● Super Green	520	1000	2000	-	-	2.2	2.4	20



UNIT : mm



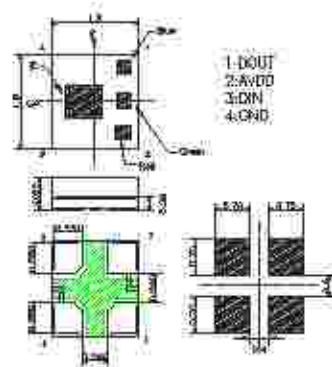
Product	Size (LxWxH mm)	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / DIE	I _f (mcd) min.	I _f (mcd) typ.	I _f (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
35-275VCG2535-E3TR7	2.7x 2.7x2.7	● Brilliant Yellow Green	570	400	800	-	1.7	2	2.4	20
35-275VCG2535-A5TR7	2.7x 2.7x2.7	● Super Yellow	580	500	1000	-	-	2	2.4	20
35-275DFG2535-A5TR7	2.7x 2.7x2.7	● Brilliant Red	634	600	1000	-	-	2	2.4	20

SMD LED

SMD LED ■ Surface Mount (RGB+IC)



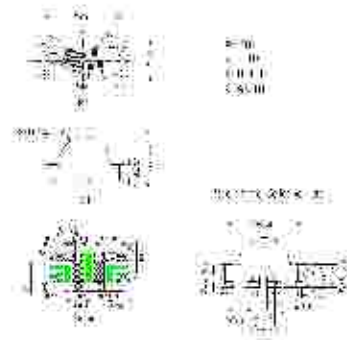
UNIT : mm



Product	Size (LxWxH(mm))	Color		λ			IF(mA)	View Angle(°)
		Color	Wavelength nm / nm	I _v (mcd) max	I _v (mcd) typ	I _v (mcd) min		
19-000R50R50R50C-5Vx12T	1.8 x 1.8 x 0.85	● Brilliant Red	617.5~622.5	28.5	70	180	5	120
	1.8 x 1.8 x 0.85	● Brilliant Green	515~520	140	160	350	5	120
	1.8 x 1.8 x 0.85	● Blue	465~470	28.5	40	70	5	120



UNIT : mm

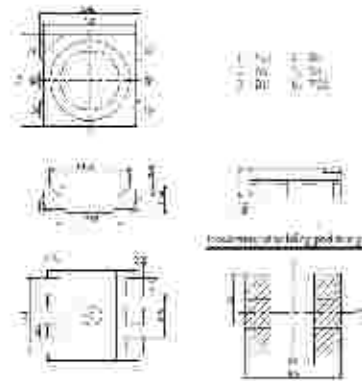


Product	Size (LxWxH(mm))	Color		λ			IF(mA)	View Angle(°)
		Color	Wavelength nm / nm	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max		
19-000R50R50R50C-5Vx12C	3.0 x 3.0 x 2.0	● Brilliant Red	617.5~622.5	22.5	-	70	5	120
	3.0 x 3.0 x 2.0	● Brilliant Green	515~520	40	-	100	5	120
	3.0 x 3.0 x 2.0	● Blue	465.5~470.5	18	-	50	5	120

SMD LED | Surface Mount (RGB+IC)



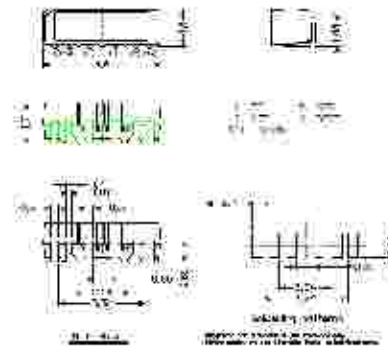
UNIT :mm



Product	Size (LxWxH)(mm)	Color		I _v			IF(mA)	View Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max		
FA-025-02PQ2H0R6YC-A050T-05	5.0 x 5.0 x 1.5	● Brilliant Red	617.5~629.5	90	-	350	1	120
	5.0 x 5.0 x 1.5	● Brilliant Green	520~530	280	-	650	5	120
	5.0 x 5.0 x 1.5	● Brilliant Blue	462~474	70	-	220	5	120



UNIT :mm



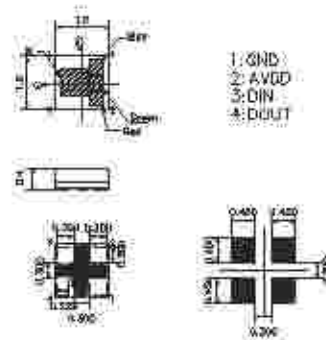
Product	Size (LxWxH)(mm)	Color		I _v			IF(mA)	View Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max		
C45W30W1351-RGB-C0125-01	4.5 x 4.4 x 1.7	● Brilliant Red	618~630	450	-	1120	20	120
	4.5 x 4.4 x 1.7	● Brilliant Green	520~530	1120	-	2800	20	120
	4.5 x 4.4 x 1.7	● Brilliant Blue	463~475	280	-	910	20	120

SMD LED

SMD LED | Surface Mount (RGB+IC) | Top view B1010



UNIT: mm

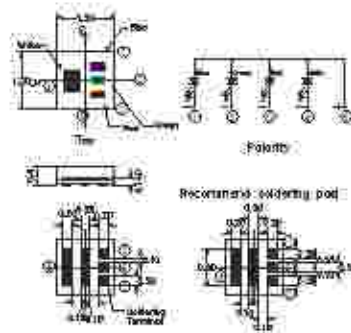


Product	Size (LxWxHmm)	Color		I_f (mA)	V_f		IF (mA)	View Angle(°)
		Color	Wavelength nm / DQE		V_f (V) min	V_f (V) typ		
B10 (20WV152R08C0) 105-01	1.2x1.0x0.4	● Brilliant Red	-	15-120	VDD(0V)	-	120	
	1.0x1.0x0.4	● Brilliant Green	-	20-120	VDD(0V)	-	120	
	1.0x1.0x0.4	● Brilliant Blue	-	10-45	VDD(0V)	0	120	

SMD LED | Surface Mount (RGB+IC) | Top view B1212



UNIT: mm

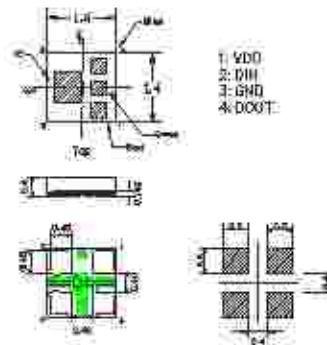


Product	Size (LxWxHmm)	Color		I_f (mA)	V_f		IF (mA)	View Angle(°)
		Color	Wavelength nm		V_f (V) min	V_f (V) max		
B12 (20W1441-60RWB0) 115-01	1.2x1.2x0.4	● Brilliant Red	72-112	2.5	3.2	25	120	
	1.2x1.2x0.4	● Brilliant Green	525-565	2.4	3.3	25	120	
	1.2x1.2x0.4	● Brilliant Blue	462-480	1.7	3.4	25	120	
	1.2x1.2x0.4	□ Pure White	480-490	2.5	3.3	25	120	

SMD LED | Surface Mount (RGB+IC) | Top view B1414



UNIT: mm

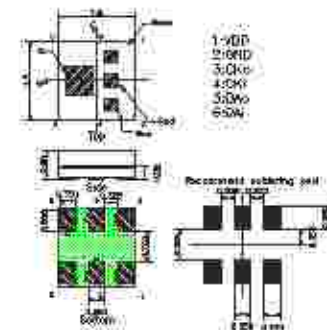


Product	Size (LxWxH)mm	Color		V _i		I _F (mA)	View Angle(°)
		Color	L _i (mm) min	V _i (V) typ	V _f (V) typ		
B1414SWW/KC-CPBC0112-2T	1.421x0.623	● Brilliant Red	190~220	VDD(5V)		5	120
	1.421x0.623	● Brilliant Green	120~180	VDD(5V)		5	120
	1.421x0.623	● Brilliant Blue	112~130	VDD(5V)		5	120

SMD LED | Surface Mount (RGB+IC) | Top view B1818



UNIT: mm



Product	Size (LxWxH)mm	Color		V _i			I _F (mA)	View Angle(°)
		Color	L _i (mm) min	V _i (V) min	V _i (V) typ	V _i (V) max		
B1818CPSD-4HC-5V12ZT	1.8x1.8x0.55	● Brilliant Red	280~350	VDD(4.5V)	VDD(5V)	VDD(5.5V)	20(±0.1)	120
	1.8x1.8x0.55	● Brilliant Green	300~350	VDD(4.5V)	VDD(5V)	VDD(5.5V)	20(±0.1)	120
	1.8x1.8x0.55	● Blue	180~300	VDD(4.5V)	VDD(5V)	VDD(5.5V)	20(±0.1)	120

SMD LED

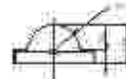
SMD LED | Surface Mount (RGB+IC) | Top view B3010



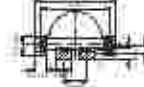
UNIT : mm



- 1: DOUT
- 2: GND
- 3: VDD
- 4: DIN



Forward static I_F



Product	Size (LxWxH)(mm)	Color	λ _c (nm)	V _f		I _F (mA)	View Angle(°)
		Color		V _f (V) min	V _f (V) typ		
B3010PW1251-GR00010-2P	3.0x1.0x1.0	● Brilliant Red	640-660	VDD(3.5V)	VDD(5V)	120 (OUT)	120
	3.0x1.0x1.0	● Brilliant Green	520-530	VDD(3.5V)	VDD(5V)	120 (OUT)	120
	3.0x1.0x1.0	● Blue	450-460	VDD(3.5V)	VDD(5V)	120 (OUT)	120

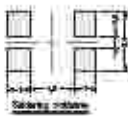
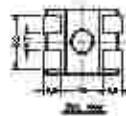
SMD LED | Surface Mount (RGB+IC) | Top view C3227



UNIT : mm



- 1: D+
- 2: VDD
- 3: D-
- 4: VSS

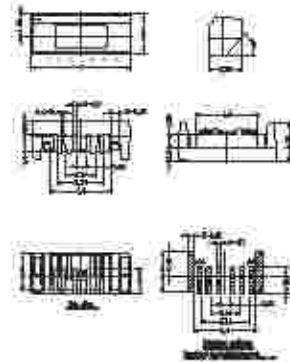


Product	P _{tot} (mW/mini)	Color	λ _c (nm)	V _f			I _F (mA)	View Angle(°)
		Color		V _f (V) min	V _f (V) typ	V _f (V) max		
C3227DW1251-GR00015-2P	5.2x1.7x1.8	● Brilliant Red	640-660	VDD(3.5V)	VDD(5V)	VDD(5V)	120 (OUT)	120
	5.2x1.7x1.8	● Brilliant Green	520-530	VDD(3.5V)	VDD(5V)	VDD(5V)	120 (OUT)	120
	5.2x1.7x1.8	● Brilliant Blue	450-460	VDD(3.5V)	VDD(5V)	VDD(5V)	120 (OUT)	120

SMD LED | Surface Mount (RGB+IC) | Top view C7024



UNIT : mm

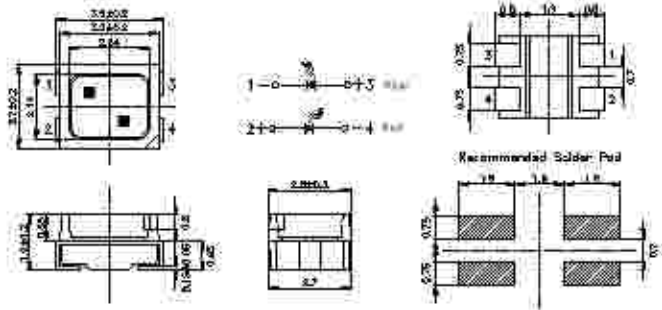


Product	Size (LxWxHmm)	Color		L_v L (mm) min	V_f			IF (mA)	View Angle(°)
		Color			V_f (V) min	V_f (V) typ	V_f (V) max		
C7024S0WNL51-ROE001L840H	7.0x2.4x2.35	● Bright Red		450~1120	VDD(4.5V)	VDD(5V)	VDD(5V)	20 (L_30°T)	120
	7.0x2.4x2.35	● Bright Green		1120~2800	VDD(4.5V)	VDD(5V)	VDD(5V)	20 (L_30°T)	120
	7.0x2.4x2.35	● Bright Blue		380~710	VDD(4.5V)	VDD(5V)	VDD(5V)	20 (L_30°T)	120

SMD LED | Surface Mount PLCC LED (Reflector) | Top View LED Bi-Color PLCC4



UNIT: mm

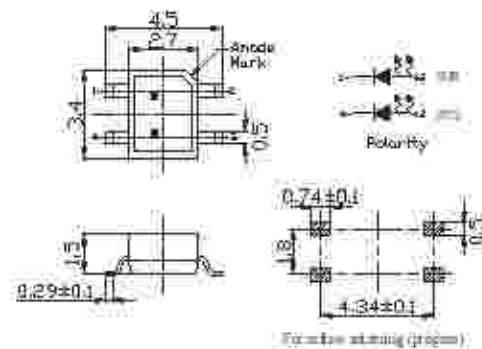


Product	Size (LxWxH)mm	Color		I _v			V _f		θ _j (°C/W)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min.	V _f (V) max.	
E7-22R8BHC-B07/2T	3.5x2.5x1.3	● Brilliant Red ● Blue	Red: 621-631 Blue: 461-471.5	85-90 81-90	-	45-225 81-225	RE: 1.75 BH: 2.9	FE: 2.95 BH: 2.7	25
E7-22R8B0C-B03/2T	3.5x2.5x1.3	● Brilliant Red ● Brilliant Yellow	Red: 621-631 Yellow: 570-574	85-97 81-96	-	28-185 81-285	RE: 1.75 EYG: 1.75	FE: 2.95 EYG: 2.35	25
E7-22R8V2C-B31/2T	3.5x2.5x1.3	● Brilliant Red ● Brilliant Yellow	Red: 621-631 Yellow: 570-574	85-72 81-77	-	45-285 81-285	RE: 1.75 EYG: 1.75	FE: 2.95 EYG: 2.35	25
ET-031V8H0C-NE30-A57RE	3.5x2.5x1.3	● Brilliant Yellow ● Brilliant Yellow Green	UV: 580 Yellow: 570-574	UV: 85 81-95	UV: 125 81-95	-	UV: 1.75±0.1 EYG: 1.75±0.1	UY: 2.4 EYG: 2.1	25

SMD LED | Surface Mount PLCC LED (Reflector) | Reverse Mount LED Bi-Color

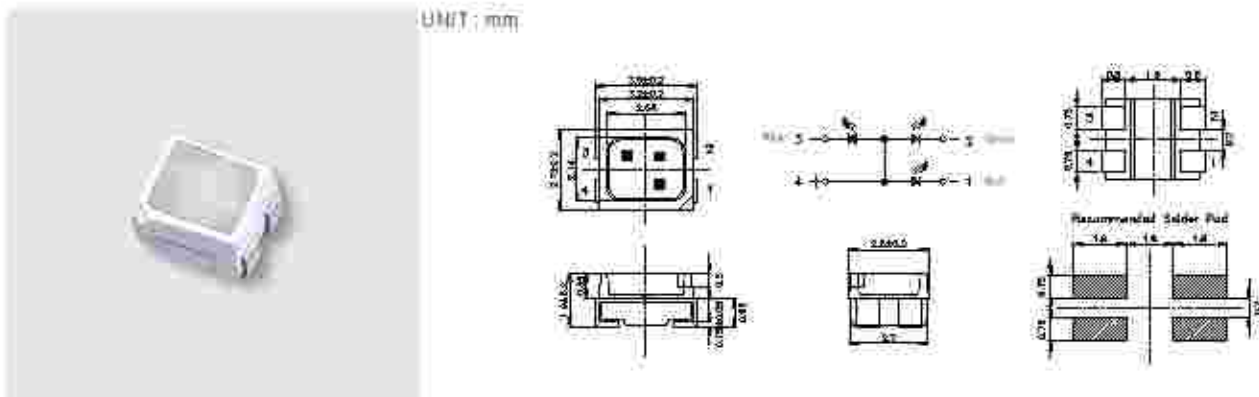


UNIT: mm



Product	Size (LxWxH)mm	Color		I _v			V _f (V) min.	V _f (V) max.	θ _j (°C/W)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.			
V9-22R8URSY0C/S53D-AN7RE	3.5x2.7x1.3	● Brilliant Red	621	17	41	25	2.4	25	
	3.5x2.7x1.3	● Brilliant Yellow Green	573	11	15	25	2.2	25	

SMD LED | Surface Mount PLCC LED (Reflector) | Top View Mono PLCC2



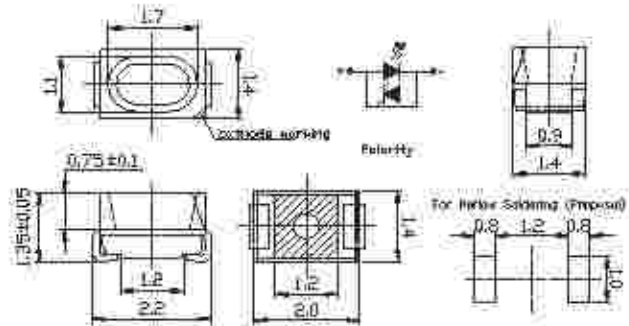
Product	Pkg (LxWxH)mm	Color		L _v		V _f (V) typ	V _f (V) max	I _f (mA)
		Color	Wavelength nm (QIE)	L (mil) mm	L (mil) mm			
87-23R5GHBHD-B552T	3.5x2.8x1.9	RR ● Brilliant Red	RR 621-631	RR 112	RR 265	RR 2.0	RR 2.4	20
		GR ● Brilliant Green	GR 520-530	GR 190	GR 110	GR 3.4	GR 3.85	
		BR ● Blue	BR 465-475	BR 22	BR 285	BR 3.4	BR 3.85	
87-23R5YDUBD/TMS	3.5x2.8x1.9	DR ● Deep Red	DR 630	DR 60x110	-	DR 2.0	DR 2.4	30
		YD ● Brilliant Yellow Green	YD 570	YD 12x20	-	YD 2.0	YD 2.4	
		UB ● Blue	UB 470	UB 10x18	-	UB 1.5	UB 2.0	

SMD LED

SMD LED | Surface Mount PLCC LED (Reflector) | Top View Mono PLCC2



UNIT: mm

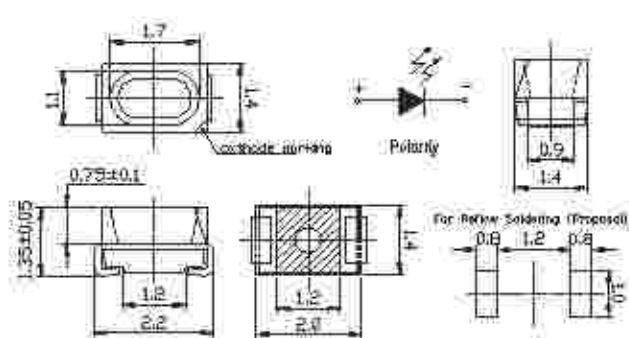


Product	Size (LxWxHmm)	Color		L _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	l _v (mcd) min	l _v (mcd) typ	V _f (V) min	V _f (V) max	
ES-118HG-AR102B32T	2.2x1.3x1.35	Blue	464.5~470.5	110	180	2.5	3.6	20
ES-11T20-FVW102T	2.2x1.3x1.35	Clear White	λ=0.389~0.33 γ=0.275~0.34	110	180	2.5	3.6	20

SMD LED



UNIT: mm

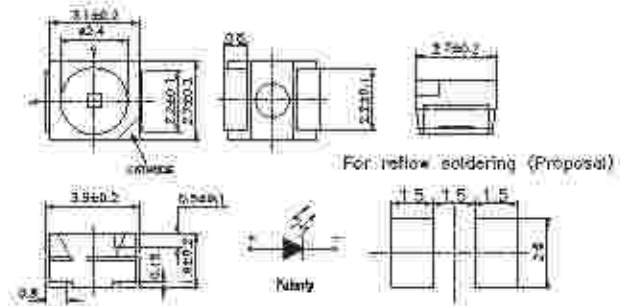


Product	Size (LxWxHmm)	Color		L _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	l _v (mcd) min	l _v (mcd) typ	V _f (V) typ	V _f (V) max	
ES-1125C-A42210T	2.2x1.3x1.35	Billiard Yellow Green	565.5~577.5	36	90	1.75	2.35	20
ES-218HG-FW102B32T	2.2x1.3x1.35	Blue	464~472	100	160	1.7	2.5	20
ES-11V25C-AR102B32T	2.2x1.3x1.35	Billiard Yellow	595.5~604.5	110	280	1.75	2.35	20
ES-11R60-RG102B32T	2.2x1.3x1.35	Billiard Red	616.5~624.5	70	180	1.75	2.35	20

SMD LED ■ Surface Mount PLCC LED (Reflector) ■ Top View Mono PLCC2



UNIT: mm

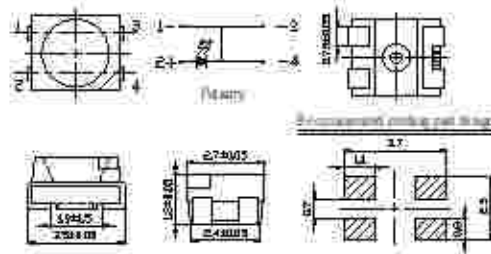


Product	Size (L/W/Height)	Color		L		V _F		I _F (mA)
		Color	Wavelength (nm) / (nm)	L (Typical) (mm)	L (Max) (mm)	V _F (V) min	V _F (V) max	
ST-218HC-F21R272T	3.5x2.7x1.5	Blue	452-472	72	100	2.7	3.7	20
ST-21870-R311812T	3.5x2.7x1.5	Blue	461.5-476.5	225	200	2.4	3.3	20
ST-21880-Y320M0T	3.5x2.7x1.5	Brilliant Green	520-530	98	148	2.7	3.7	20
ST-21890-A321E1022T	3.5x2.7x1.5	Brilliant Green	517.5-535.5	225	200	2.4	3.3	10
ST-218HC-BV10T	3.5x2.7x1.5	Brilliant Green	521.0-533.0	74	90	2.7	4.3	30
ST-21890-APR182T	3.5x2.7x1.5	Brilliant Red	617.5-633.0	117	140	1.75	2.30	20
ST-21890-PR201822T	3.5x2.7x1.5	Brilliant Red	621-631	78	90	1.75	2.45	10
ST-21890-PR211822T	3.5x2.7x1.5	Brilliant Red	621-627	74	90	1.75	2.25	20
ST-21890-PS101822T	3.5x2.7x1.5	Brilliant Red	621-624	140	55	1.75	2.50	20
ST-21890-F201822T	3.5x2.7x1.5	Brilliant Red	621-624	140	60	1.75	2.35	10
ST-21820-F20R2822T	3.5x2.7x1.5	Brilliant Orange	615-625	80	100	1.75/2	2.35	20
ST-21820-R201822T	3.5x2.7x1.5	Brilliant Orange	615.0-612.0	80	200	1.75	2.45	10
ST-21820-2VIEW2822T	3.5x2.7x1.5	C White	$\lambda = 0.240\mu\text{m} - 0.29\mu\text{m}$ $\lambda = 0.21\mu\text{m} - 0.260\mu\text{m}$	715	1000	2.7	3.85	20
ST-21820-R211822T	3.5x2.7x1.5	Brilliant Yellow	588.5-594.5	140	90	1.75	2.40	10
ST-21890-FV192822T	3.5x2.7x1.5	Brilliant Yellow	589-594	450	1100	1.75	2.05	20

SMD LED | Surface Mount PLCC LED (Reflector) | Top View Mono PLCC3



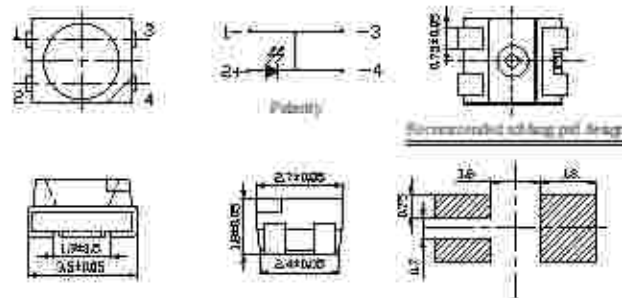
UNIT: mm



Product	Size (LxWxH(mm))	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
GT-31WSAC-AW(Y)2BRZM2T	3.5x2.7x1.2	● Reddish Orange	605.5-625.5	1120	-	2850	1.85	-	2.15	20
GT-31WSDC-V(Y)2GBM2T	3.5x2.7x1.2	● Green	520-525	710	-	1800	2.15	-	2.45	20
GT-31WSDC-A(Y)2GBM2T	3.5x2.7x1.2	● Blue	465.5-475.5	280	-	710	2.75	-	3.05	20



UNIT: mm

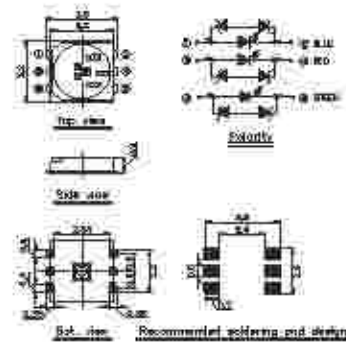


Product	Size (LxWxH(mm))	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
GT-31WSDC-A(Y)2GBM2T	3.5x2.7x1.2	● Brilliant Red	617.5-633.5	710	-	1800	2.15	-	2.75	20

SMD LED | Surface Mount PLCC LED (Reflector) | Top View Full-color PLCC6



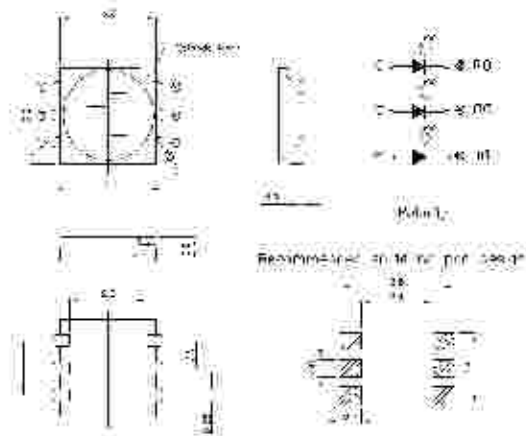
UNIT : mm



Product	Size (LxWxH/mm)	Color		I _v		V _f		IF (mA)	View Angle(°)
		Color	Wavelength nm ± CIE	I _v (mcd) min	I _v (mcd) max	V _f (V) typ	V _f (V) max		
67-226-BYDHT2W-M01536-370-CE	3.6x3.2x0.8	Red	617.5-628.8	40	110	1.75	2.75	20	120
		Green	520-530	80	130	2.4	3.4	15	120
		Blue	460-470	140	150	2.4	3.6	10	120
		White	CE: 0.250-0.324 CIE: 0.280-0.376	140	300	-	-	-	120



UNIT : mm

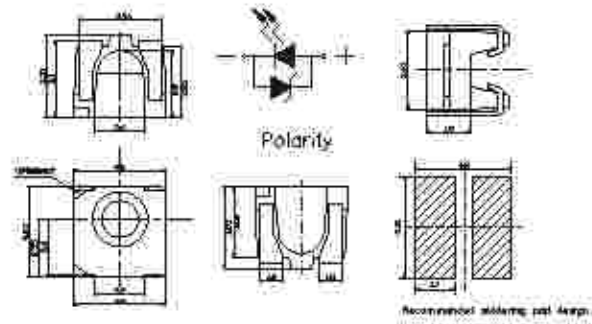


Product	Size (LxWxH/mm)	Color		I _v		V _f		IF (mA)
		Color	Wavelength nm ± CIE	I _v (mcd) min	I _v (mcd) max	V _f (V) min/typ	V _f (V) max	
67-226-BYD000-A01E-370-CE	3.2x3.5x0.8	RGB (specify)	BQ 617.5-629.8	BQ 40	BQ 80	BQ 1.75	BQ 2.75	20
		GC (Blue/Green)	GC 520-530	GC 110	GC 130	GC 2.4	GC 3.4	
		B (Blue)	BQ 460-470	BQ 140	BQ 150	BQ 2.4	BQ 3.6	

SMD LED | Surface Mount PLCC LED (Reflector) | Side View LED



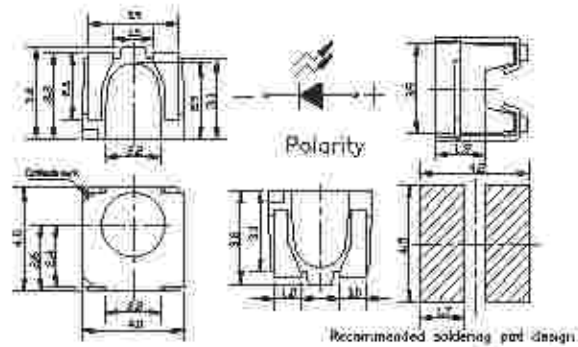
UNIT: mm



Product	Size (LxWxH/mm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) mm	V _f (V) min	V _f (V) typ.	V _f (V) max	
57-16V70/5400-VTR4	4.0x4.0x3.5	White	λ=0.3870-0.3930 γ=0.33M-0.3710	300	1800	2.75	-	3.25	20



UNIT: mm

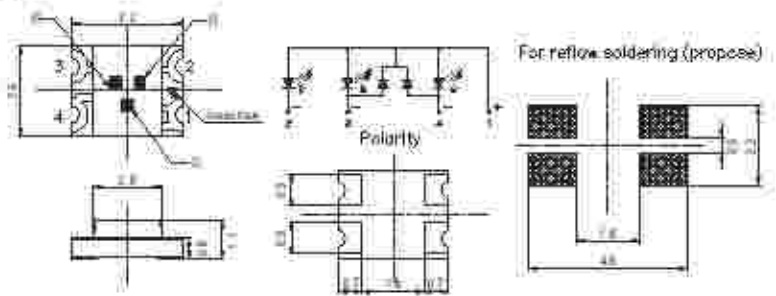


Product	Size (LxWxH/mm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) mm	V _f (V) min	V _f (V) typ.	V _f (V) max	
57-21710/491002B/BT	4.0x4.0x3.5	● Brilliant Red	617.5-618.5	45	110	1.75	-	2.35	10
57-21810/491002E/BTR	4.0x4.0x3.5	● Brilliant Intense Green	528	20	-	1.7	2	2.4	20

SMD LED | Surface Mount PLCC LED (Reflector) | Top View Full Color



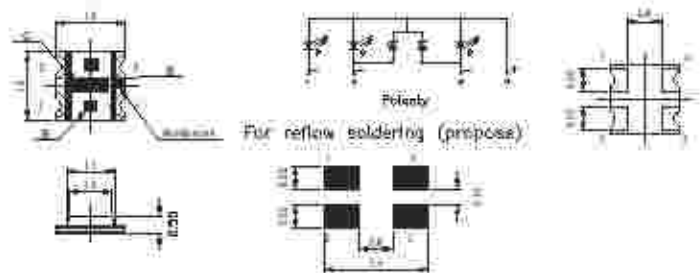
UNIT : mm



Product	Size (LxWxH/mm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (mod) mm	L _v (mod) typ	V _f (V) min	V _f (V) typ	V _f (V) max	
1S-10D1R10H1H1C-4012T	3.5x2.8x1.1	● Brilliant Red	RE : 624	RE :	140	1.7	2	2.4	20
		● Brilliant Green	GH : 527	GH :	110	2.7	3.3	3.7	20
		● Blue	BH : 470	BH :	65	2.7	3.3	3.7	20



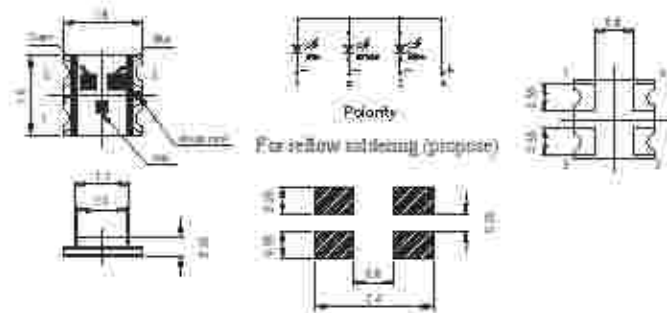
UNIT : mm



Product	Size (LxWxH/mm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (mod) mm	V _f (V) min	V _f (V) typ	V _f (V) max		
1S-10D1R10H1H1C-40V2T	1.5x1.6x0.8	● Brilliant Red	RE : 624	RE :	12 / 100	RE :	1.7 / 2	RE : 2.4	20
		● Brilliant Green	GH : 527	GH :	112 / 180	GH :	2.7 / 3.3	GH : 3.7	
		● Blue	BH : 470	BH :	55.5 / 55	BH :	2.7 / 3.3	BH : 3.7	



UNIT : mm

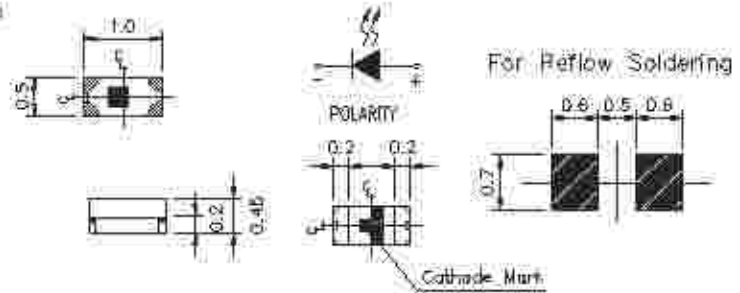


Product	Size (LxWxH/mm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (mod) mm	V _f (V) min	V _f (V) max	V _f (V) typ		
1S-10D1R10H1H1C-40C2T	1.5x1.5x0.8	● Brilliant Red	RE : 624	RE :	18 / 33	RE :	1.9	RE : 2.3	20
		● Brilliant Green	GH : 527	GH :	28.5 / 60	GH :	2.6	GH : 3	
		● Blue	BH : 470	BH :	13.5 / 18	BH :	2.6	BH : 3	

SMD LED | Surface Mount Chip LED (PCB) | Top View 0402 (0.2T-0.5T)



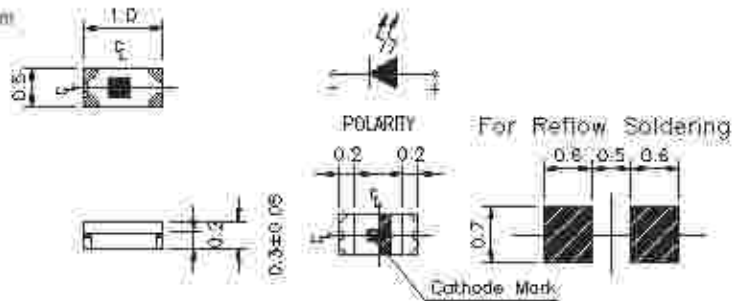
UNIT: mm



Product	Size (LxWxmm)	Color		I _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) max.	V _f (V) min.	V _f (V) max.	
16-2135HC-4R1PQ2T	1.0x0.5x0.45	Blue	470	28.0	70	2.7 (±0.4)	3.1	20
16-2135HG-33WQ2V7T	1.0x0.5x0.45	Blue	470	11.5	28.5	2.7	3.0	5
16-2135HD-VR15M1T	1.0x0.5x0.45	Emitted Green	520	110	210	2.7 (±0.4)	3.1	20
16-2135HC-4R2R2B1T	1.0x0.5x0.45	High Red	630.5-633.5	90	180	1.75	2.05	20
16-2135TD-4R1Q2V9T	1.0x0.5x0.45	Clear White	x=0.28 y=0.30	45	112	2.7	3.2	5
16-2135TD-4R1R1Q10T	1.0x0.5x0.45	Clear White	x=0.28 y=0.30	70	180	2.7	3.2	5



UNIT: mm

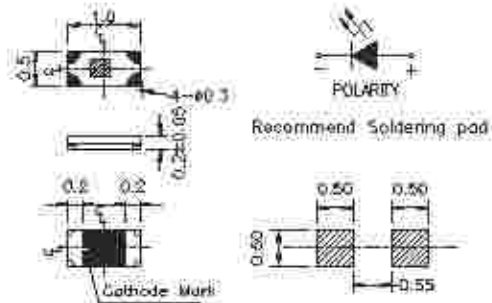


Product	Size (LxWxmm)	Color		I _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	V _f (V) min.	V _f (V) typ.	
16-21973D-4R1Q1V4T	1.0x0.5x0.3	Clear White	CIE x:0.274-0.334 y:0.228-0.315	70	-	1.90	2.6	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 0402 (0.2T-0.5T)



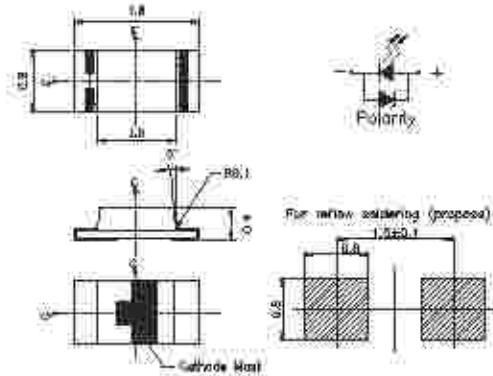
UNIT: mm



Product	Size (LxWxHmm)	Color		I _f		V _f			IF (mA)
		Color	Wavelength (nm) / CIE	I _f (mcd) (min)	I _f (mcd) (typ)	V _f (V) (min)	V _f (V) (typ)	V _f (V) (max)	
15-1171B1D-AP2102V01F	1.6x0.5x0.2	Orange White	CIE: x=0.274, y=0.274 DE: y=0.225±0.02	180	-	2.0	2.2	3.2	5



UNIT: mm

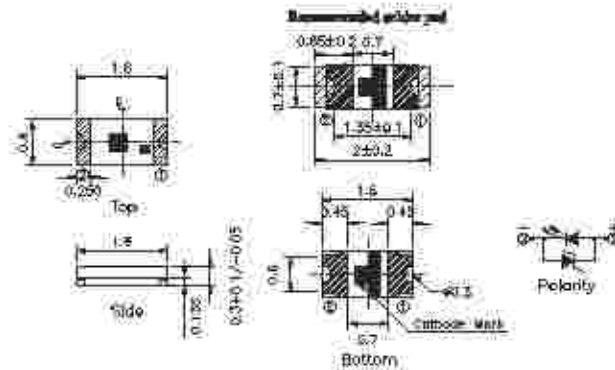


Product	Size (LxWxHmm)	Color		I _f		V _f		IF (mA)
		Color	Wavelength (nm) / CIE	I _f (mcd) (min)	I _f (mcd) (typ)	V _f (V) (min)	V _f (V) (max)	
15-1171B1C-AP2102V01F	1.6x0.8x0.2	Blue	465-475	18	45	2.1	3.2	5
15-1171B1C-AP2102V02F	1.6x0.8x0.2	Emerald Green	520-540	12	16	2.5	3.3	5
15-1171B1D-AP2102V02F	1.6x0.8x0.2	Orange White	λ=0.274, y=0.274	18	45	2.0	2.9	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 0603 (0.2T-0.8T)



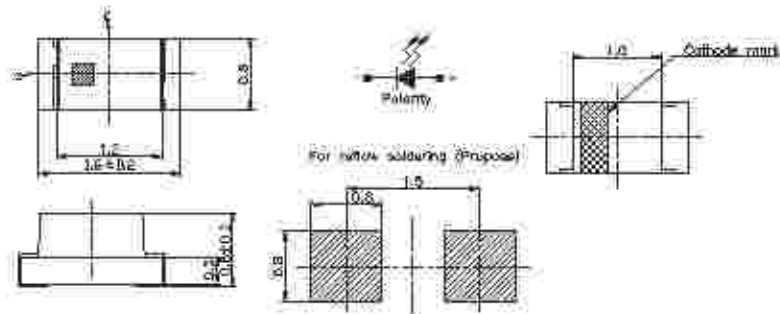
UNIT: mm



Product	Size (LxWxH)mm	Color		L _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) typ	L _v (max) max.	V _f (V) min	V _f (V) typ	V _f (V) max	
16-1188HHC-2L 1M322v2T	1.6x0.8x0.2	Blue	465/0.25	11.0	-	28.5	2.7	-	5.2	5



UNIT: mm



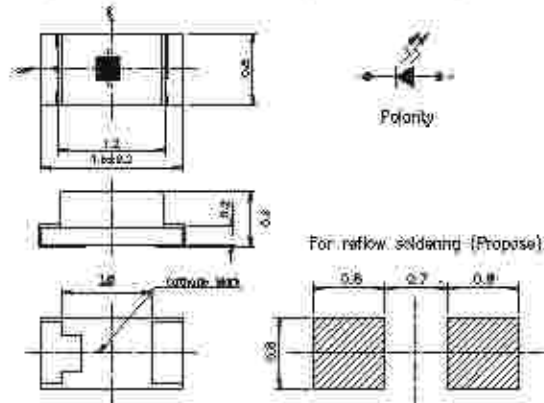
Product	Size (LxWxH)mm	Color		L _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) max.	L _v (max) typ	V _f (V) min	V _f (V) max	V _f (V) typ	
16-21/66C-AP100M03	1.6x0.8x0.2	Blue	470	27	112	2.70	2.80	3.0	30	
16-21/66C-AP100T	1.6x0.8x0.2	Blue	470	45	112	2.7/3.3	3.7	3.8	30	
16-21/66C-Z31M20T	1.6x0.8x0.2	Blue	470	32	180	2.7	3.2	3.0	30	
16-21/06C-AL1M20T	1.6x0.8x0.2	Bright Yellow Green	578	11.5	36.0	1.7	2.0	1.8	20	
16-21/06C-FM120T	1.6x0.8x0.2	Bright Yellow Green	578	18	45	1.75	2.05	2.0	20	
16-21/06C-FY101T	1.6x0.8x0.2	Bright Yellow Green	578	45	80	1.7	2.3	2.0	20	
16-21/06C-VF102T	1.6x0.8x0.2	Bright Green	520	45	112	2.6	3.0	2.8	20	
16-21/06C-FL1M20T	1.6x0.8x0.2	Green	520	11.5	36.0	1.75	2.05	2.0	20	
16-21/66C-AL21V12T	1.6x0.8x0.2	Bright Red	620	14.0	30	2.7	2.2	2.5	5	
16-21/66C-FF102T	1.6x0.8x0.2	Bright Red	620	45	112	1.7	2.3	2.0	20	
16-21/67C-AH1L20T	1.6x0.8x0.2	Deep Red	630	7.0	18	1.75	2.05	2.0	5	
16-21/67C-AH20T	1.6x0.8x0.2	Deep Red	630	24	80	1.75	2.05	2.0	20	
16-21/66C-FH20T1/3T	1.6x0.8x0.2	Deep Red	630	38	80	1.7	2.3	2.0	20	
16-21/02C-AL3M03T	1.6x0.8x0.2	Bright Orange	600	6.5	30.0	1.7	2.2	2.0	5	
16-21/02C-AJ1R20T	1.6x0.8x0.2	Bright Orange	610	7.2	180	1.75	2.05	2.0	20	
16-21/02C-CP20T	1.6x0.8x0.2	White	4500-4600	45	112	2.4	3.0	2.8	20	
16-21/02C-AL1M20T	1.6x0.8x0.2	Bright Yellow	580	11.5	36.0	1.7	2.2	2.0	5	
16-21/02C-CH1020T	1.6x0.8x0.2	Bright Yellow	580	45	112	1.75	2.05	2.0	20	

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Top View 0603 (0.2T-0.8T)



UNIT :mm



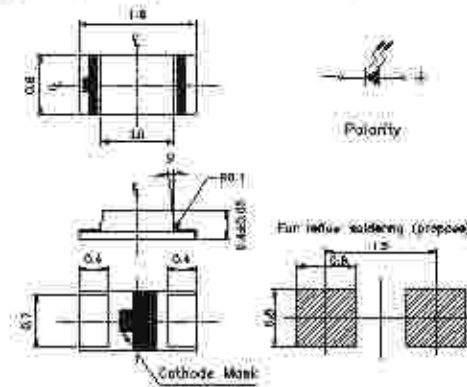
For reflow soldering (Propose)

Product	Size (LxWxHmm)	Color		L _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	L _v (mcd) min.	L _v (mcd) max.	V _f (V) min.	V _f (V) max.	
15213WZC-CC9C20T	1.6x0.8x0.8	● Bright Yellow	583	72	183	1.7 / 2	2.4	20
15213BTD-AC08H20T	1.6x0.8x0.8	● Blue	470	81	225	2.5	3.1	20
15213BHC-AP1220T	1.6x0.8x0.8	● Blue	470	49	112	2.1	2.7	20
15213GHC-AP1020T	1.6x0.8x0.8	● Bright Verde (Green)	523	45	112	2	2.6	20
15213GHC-EM120B7T	1.6x0.8x0.8	● Bright Yellow Green	523	16	45	1.75	2.35	20
15213GHC-FN201U2T	1.6x0.8x0.8	● Bright Verde (Green)	523	25	90	1.1	2.3	20
15213GHW-FN1P150T	1.6x0.8x0.8	● Bright Yellow Green	523	28.5	97	1.75	2.35	20
15213GHC-KE1T1W0T	1.6x0.8x0.8	● Bright Green	528	180	160	2.1	2.7	20
15213GHC-YP1020Y2T	1.6x0.8x0.8	● Bright Green	525	45	112	2.1	2.7	5
15213GHC-YE1502T	1.6x0.8x0.8	● Bright Green	528	112	200	2.5	4	20
15213RHC-AM2P1Y05T	1.6x0.8x0.8	● Bright Red	624	22.5	57	1.7	2.4	5
15213RHC-AP1020J2T	1.6x0.8x0.8	● Deep Red	620	45	112	1.7	2.3	20
15213RHC-AP10200T	1.6x0.8x0.8	● Bright Red	624	45	112	1.75	2.35	20
15213RHC-AC1020B7T	1.6x0.8x0.8	● Bright Red	624	70	180	1.75	2.35	20
15213RHC-FN1P20T	1.6x0.8x0.8	● Deep Red	623	28.5	70	1.7 / 2	2.4	20
15213RHC-AP1020B7T	1.6x0.8x0.8	● Bright Orange	600	49	112	1.75	2.35	20
15213RHC-AN2P2B0T	1.6x0.8x0.8	● Reddish Orange	615	36	72	1.75	2.35	20
15213WTD-AP1020H0T	1.6x0.8x0.8	□ Invisible	λ<350, λ<350	66	200	2.1	3.7	20
15213WZC-AP1020B0T	1.6x0.8x0.8	● Bright Yellow	583	45	112	1.75	2.35	20
15213WZC-0Y1P20T	1.6x0.8x0.8	● Bright Yellow	583	28.5	70	1.7 / 2	2.4	20
15213WZC-CP1020J2T	1.6x0.8x0.8	● Bright Yellow	583	45	112	1.7	2.3	20
15213WZC-CC0R20B0T	1.6x0.8x0.8	● Bright Yellow	583	60	180	1.1	2.3	20

SMD LED | Surface Mount Chip LED (PCB) | Top View 0603 (0.2T-0.8T)



UNIT: mm



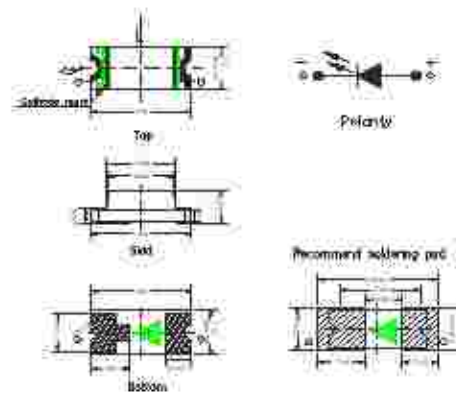
Product	Size (LxWxH(mm))	Color		I_f		V_f		IF (mA)
		Color	Wavelength nm ± CIE	I_f (mA) min	I_f (mA) max	V_f (V) min	V_f (V) max	
18-2177PFC-ZLWV83C9T	1.6x0.8x0.4	Blue	475	14.5	30	2.8	3.3	3
18-2175BHC-AMRP20T	1.6x0.8x0.4	Blue	470	28.5	72	2.7/3.8	3.2	20
18-2177PFC-VYTL281V40T	1.6x0.8x0.4	Blue	475	7.2	18	2.8	3.3	3
18-2175BHC-ES-IM2RY0T	1.6x0.8x0.4	Blue	470	11.5	28.5	2.8	3.1	5
18-2176PFC-AMYP20T	1.6x0.8x0.4	Brilliant Yellow Green	575	28.5	72	1.7/2.5	2.4	20
18-2175BHC-V8HE20T	1.6x0.8x0.4	Brilliant Green	525	11.5	28.5	2.1/3.2	3.7	20
18-2175PFC-P1223T	1.6x0.8x0.4	Brilliant Red	624	40	110	1.7/3	2.4	20
18-21753C-4L3M2VY0T	1.6x0.8x0.4	Brilliant Orange	605	11.5	28.5	1.7	2.2	5
18-21753C-4L3M1VY0T	1.6x0.8x0.4	Brilliant Orange	610	14.5	35	1.7	2.3	5
18-217718C-Q3R2TV0T	1.6x0.8x0.4	Fluor White	4500/0.274, 460/0.225	30	100	0.5	0.8	5
18-217770C-C12V180T	1.6x0.8x0.4	Fluor White	4500/0.274, 460/0.225	360	900	0.7	0.7	20
18-21753C-AM1N1Y00T	1.6x0.8x0.4	Fluor Yellow	575	16	38	1.7	2.1	5
18-21775C-4P1223T	1.6x0.8x0.4	Fluor Yellow	585	40	110	1.7/3	2.4	20
18-21775C-4Q3R20T	1.6x0.8x0.4	Fluor Yellow	585	40	110	1.7/3	2.4	20

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Top View 0603 (0.2T-0.8T)



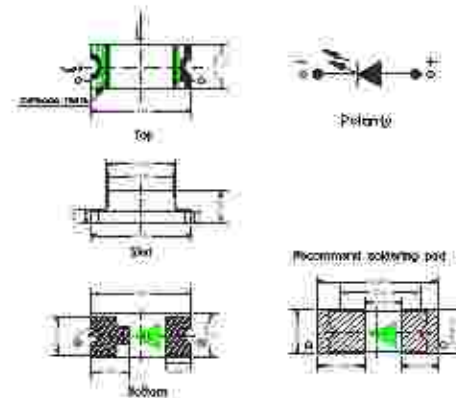
UNIT :mm



Product	Size (LxWxHmm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (med) mm	L _v (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max	
1HE-212T10A-31TAAST	1.600x0.625	Pure White	450-264-y=0.254	450	360	2.7	-	3.7	20
1HE-212B10C-AR181PAST	1.600x0.625	Brilliant Red	627.5-633.0	112	225	1.75	-	2.35	20
1HE-212B10C-XR181PAST	1.600x0.625	Brilliant Green	520-525	112	265	-	3.0	3	20
1HE-212B10C-W282PAST	1.600x0.625	Blue	464.5-470.0	140	265	2.9	-	3.6	20
1HE-212Y10C-012PRL	1.600x0.625	Brilliant Yellow	580.5-585.0	90	180	1.7	-	2.3	20
1HE-212B10C-AQ282PAST	1.600x0.625	Brilliant Orange	600.5-605.0	70	160	1.75	-	2.35	20
1HE-212Y10C-AR12P1810	1.600x0.625	Brilliant Yellow Green	559.5-572.0	95	15	1.75	-	2.35	20



UNIT :mm

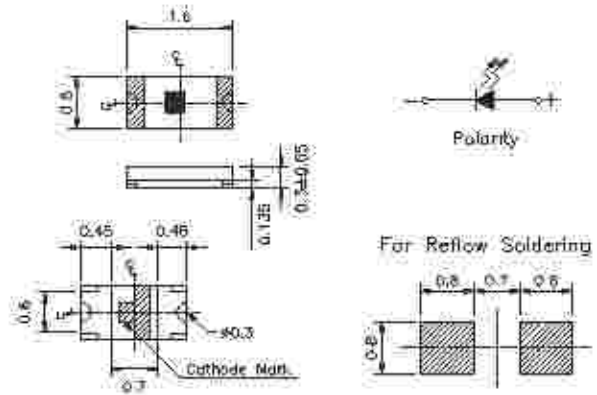


Product	Size (LxWxHmm)	Color		L _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (med) mm	L _v (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max	
1HE-212T10A-022PRT (MT)	1.600x0.625	Pure White	450-274-y=0.225	300	300	2.7	-	3.7	25
1HE-212B10C-AR181V08P	1.600x0.625	Brilliant Red	627.5-633.0	112	280	1.7	-	2.3	5
1HE-212B10C-XR181V08P	1.600x0.625	Brilliant Green	520-525	112	265	2.7	3.3	3.7	25
1HE-212B10C-012M181V08P	1.600x0.625	Blue	464.5-470.0	140	75	2.7	3.3	3.7	25
1HE-212Y10C-AR121V08P	1.600x0.625	Brilliant Yellow	580.5-585.0	140	265	1.75	-	2.35	20
1HE-212B10C-AR121V08P	1.600x0.625	Brilliant Orange	600.5-605.0	22.5	45	1.5	-	2.2	5
1HE-212Y10C-A1M21V08P	1.600x0.625	Brilliant Yellow Green	559.5-572.0	112	280	1.7	-	2.3	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 0603 (0.2T-0.8T)



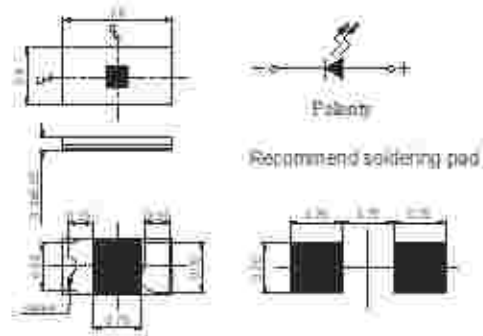
UNIT: mm



Product	Size (LxWxH)mm	Color		L _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	L _v (mcd) min.	L _v (mcd) max.	V _f (V) min.	V _f (V) max.	
1S-218BHC-BL1R20Y2T	1.8x0.6x0.3	Blue	465	10	200	2.7	3.3	5
1S-218BHC-BR10A0T	1.8x0.6x0.3	Bright Green	525	110	200	2.15	2.90	20
1S-218BHC-PM2P (B7)0T	1.8x0.6x0.3	Bright Red	624	22.5	50	1.7	2	5
1S-218T10-C02R20Y2T	1.8x0.6x0.3	Ultra White	460-270 nm / 460-270	90	180	2.8	3	5



UNIT: mm

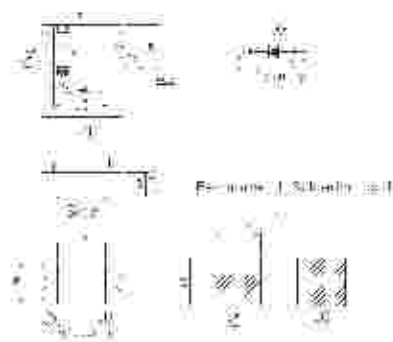


Product	Size (LxWxH)mm	Color		L _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	L _v (mcd) min.	L _v (mcd) max.	V _f (V) min.	V _f (V) max.	
1S-218T10-W22R20Y2T	1.8x0.6x0.3	Ultra White	460-270 nm / 460-270	90	180	2.8	3	5
1S-218T10-W1W1E2T	1.8x0.6x0.3	Ultra White	460-270 nm / 460-270	110	200	2.10	2.85	20
1S-218V50-AM02V20T	1.8x0.6x0.3	Bright Yellow	580	18	45	1.7	2.2	5
1S-218BHC-AM10C0Y2T	1.8x0.6x0.3	Bright Red	624-630	18	45	1.5	2.0	5

SMD LED | Surface Mount Chip LED (PCB) | Top View 0805



UNIT: mm

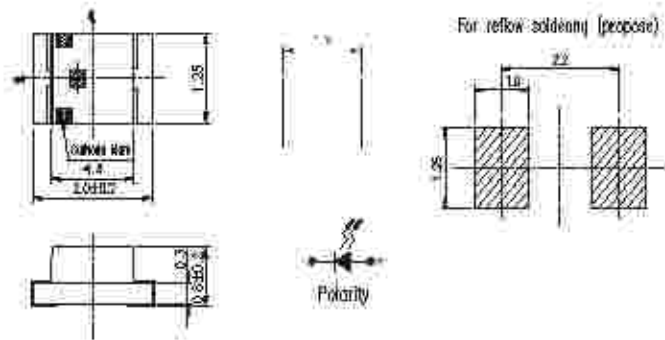


Product	Size (LxWxHmm)	Color		I _f		V _f		IF (mA)
		Color	Wavelength nm / CH	I _f (mA) min.	I _f (mA) max.	V _f (V) min.	V _f (V) max.	
17-218HC-AP1Q21T	2.5x1.25x1	Blue	470	40	112	2.7 / 2.9	3.1	10
17-218HC-XM1Q21T	2.5x1.25x1	Blue	470	112	262	2.7	3.1	5
17-218HC-AM1P21T	2.5x1.25x1	Brilliant White Green	573	26.5	57	1.75	2.30	20
17-218HC-AP1Q1B21T	2.5x1.25x1	Brilliant White Green	573	45	80	1.75	2.30	20
17-218HC-RM1Q2B1T	2.5x1.25x1	Brilliant Yellow Green	573	66	48	1.75	2.30	20
17-218HC-PM1P2B1T	2.5x1.25x1	Brilliant Yellow Green	573	26.5	72	1.75	2.30	20
17-218HC-EM1Q1B1D	2.5x1.25x1	Brilliant Yellow Green	573	45	80	1.75	2.30	20
17-218HC-XM1T2M1T	2.5x1.25x1	Brilliant Green	525	112	285	2.75	3.45	10
17-218HC-YR1B2P1T	2.5x1.25x1	Brilliant Green	525	112	285	3.0	4	20
17-218HC-AM1M1E1T	2.5x1.25x1	Green	530	72	225	1.75	2.35	10
17-218HC-AM1P1D1T	2.5x1.25x1	Green	530	66	72	1.75	2.30	20
17-218HC-RM1Q1B1E1	2.5x1.25x1	Brilliant Red	634	45	50	1.75	2.30	10
17-218HC-AP1Q221T	2.5x1.25x1	Brilliant Red	634	45	112	1.7	2.3	20
17-218HC-RM1Q1B1E1	2.5x1.25x1	Brilliant Red	634	45	50	1.75	2.30	10
17-218HC-AP1Q251T	2.5x1.25x1	Brilliant Orange	625	45	112	1.75	2.30	25
17-218HC-CP1EX100T	2.5x1.25x1	Pure White	440-285, 460-220	57	160	2.7	3	5
17-218HC-CP1Q251T	2.5x1.25x1	Pure White	440-285, 460-220	72	180	2.7	3.1	5
17-218HC-AM1P21T	2.5x1.25x1	Brilliant White	580	26.5	72	1.7 / 2	2.4	20
17-218HC-CP1P2B1T	2.5x1.25x1	Brilliant Yellow	580	26.5	72	1.75	2.30	20
17-218HC-CP1Q2B1D	2.5x1.25x1	Brilliant White	580	57	112	1.75	2.30	20

SMD LED | Surface Mount Chip LED (PCB) | Top View 0805



UNIT: mm

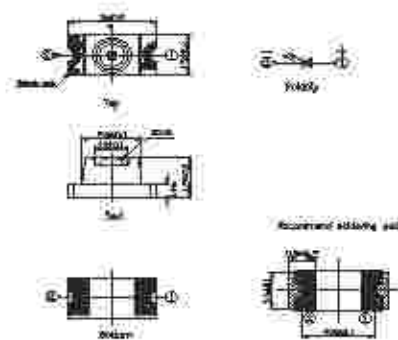


Product	Size (LxWxHmm)	Color		I _v		V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mod) min.	Lighted max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
17Q1550C-172PH3BT	2.0x1.25x0.8	Blue	470	50	880	2.7	-	3.7	20
17Q15510C-17102BT	2.0x1.25x0.8	Blue	470	85	115	2.7/2.8	-	3.7	20
17Q15510C-172Q200BT	2.0x1.25x0.8	Blue	470	50	115	2.75	-	3.65	20
17Q15510C-18M112ZBT	2.0x1.25x0.8	Brilliant Yellow Green	573	48	45	1.7	-	2.3	20
17Q15510C-182P15ZBT	2.0x1.25x0.8	Brilliant Yellow Green	573	85	72	1.75	-	2.35	20
17Q15510C-182R200BT	2.0x1.25x0.8	Brilliant Red	624	75	100	1.75	-	2.35	20
17Q15510C-182R250BT	2.0x1.25x0.8	Brilliant Orange	635	75	100	1.75	-	2.35	20
17Q15510C-182R300BT	2.0x1.25x0.8	Brilliant Orange	635	85	140	1.75	-	2.35	20

SMD LED | Surface Mount Chip LED (PCB) | Top View 1206



UNIT: mm

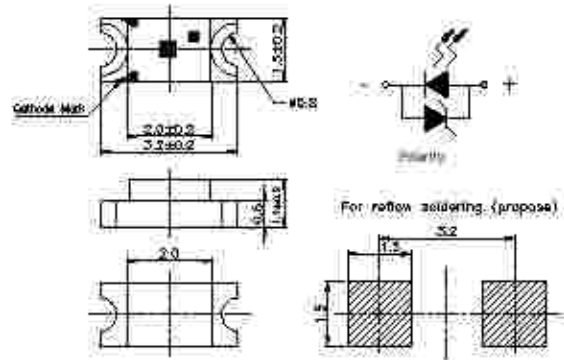


Product	Size (LxWxHmm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mod) min.	I _v (mod) typ.	I _v (mod) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
17Q1560C-182R300BT	3.0x1.25x1.25	Brilliant Red	635-637.5	40	-	385	1.75	-	2.35	20
17Q1560C-182R350BT	3.0x1.25x1.25	Brilliant Yellow Green	561.5-572.5	140	-	385	1.75	-	2.35	20
17Q1560C-182R350BT	3.0x1.25x1.25	Blue	464.5-475.5	30	-	385	2.7	3.3	3.7	20

SMD LED | Surface Mount Chip LED (PCB) | Top View 1206



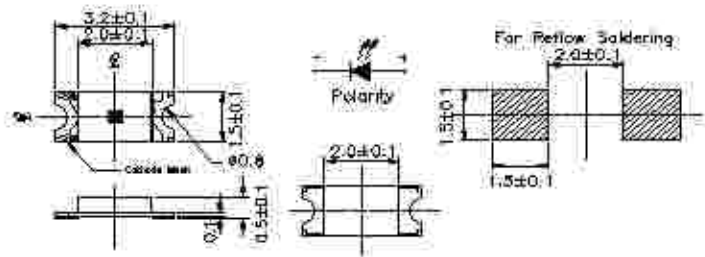
UNIT: mm



Product	SCE (LxWxHmm)	Color		L _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
15-115K-C3L2H1G1ZT	3.2x1.5x0.6	Blue	470	14.0	-	35	2.1	-	3.3	10
15-11115-A2H2YZT	3.2x1.5x0.6	White	462nm, 480nm	15	-	100	2.1	-	3.1E	10



UNIT: mm

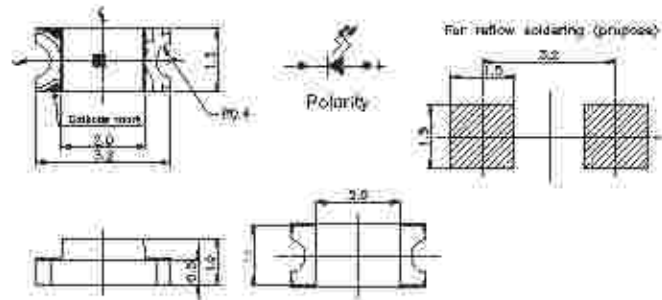


Product	SCE (LxWxHmm)	Color		L _v			V _f		IF (mA)
		Color	Wavelength nm / CIE	L _v (mcd) min	L _v (mcd) max	V _f (V) min	V _f (V) max		
15-115K-C3L2H1G1ZT	3.2x1.5x0.6	5-in-1 (Yellow, Green)	573	28.0	72	1.73	3.35	10	
15-115K-C3L2H1V1ZT	3.2x1.5x0.6	5-in-1 (Red)	624	22.0	61	1.7	3.2	10	
15-115K-C3L2H1R1ZT	3.2x1.5x0.6	5-in-1 (Red)	624	72	180	1.7	3.2	10	

SMD LED | Surface Mount Chip LED (PCB) | Top View 1206



(UNIT: mm)



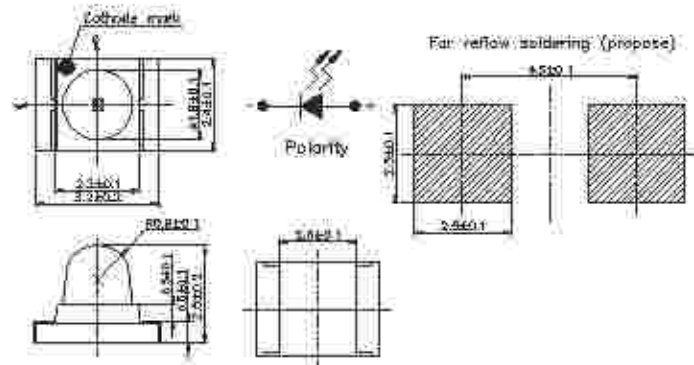
Product	Size (LxWxH mm)	Color		I_f		V_f		f (kHz)
		Color	Wavelength (nm) / CIE	I_f (mA) min	I_f (mA) max	V_f (V) min	V_f (V) max	
1521B65-YR1E2B0CT	3.2x1.5x1.0	Blue	470	12	205	2.9	3.6	20
1521B65-ZWP16-2	3.2x1.5x1.0	Blue	470	12	168	2.1	3.1	20
1521B6C-AN1P22T	3.2x1.5x1.0	Blue	470	28.5	72	2.1 / 3.0	3.1	20
1521V6C-AY1P22T	3.2x1.5x1.0	Brilliant Yellow Green	573	28.5	72	1.623	2.4	20
1521B6C-PM1H2S2T	3.2x1.5x1.0	Brilliant Yellow Green	573	18	45	1.75	2.35	20
1521V6C-CP1Q1L2T	3.2x1.5x1.0	Brilliant Yellow Green	573	28	69	1.4	2.4	20
1521B6C-XS1T V2T	3.2x1.5x1.0	Brilliant Green	525	180	380	2.1 / 3.0	3.1	25
1521B6C-VR21L2T	3.2x1.5x1.0	Brilliant Green	525	540	565	2.1 / 3.0	3.1	20
1521B6C-AR1P22T	3.2x1.5x1.0	Brilliant Red	624	28.5	72	1.7 / 2	2.4	25
1521B6C-VR2H1L2T	3.2x1.5x1.0	Brilliant Red	624	72	140	1.35	2.35	20
1521V6C-AG2R2S2T	3.2x1.5x1.0	Brilliant Orange	607	30	160	1.75	2.35	20
1521B6C-AP1Q22T	3.2x1.5x1.0	Brilliant Orange	610	30	162	1.6 / 2.0	2.4	20
1521V6C-OR1Q2F1Q2T	3.2x1.5x1.0	C-Pink White	x=0.274, y=0.275	65	102	2.5	3	5
1521V6C-OR1Q3E1P1Q2T	3.2x1.5x1.0	C-Pink White	x=0.274, y=0.230	60	225	2.1	3.3	5
1521V6C-AP1Q6T1T	3.2x1.5x1.0	Brilliant Yellow	589	28	60	1.75	2.35	20
1521V6C-CP1Q2B2T	3.2x1.5x1.0	Brilliant Yellow	589	40	112	1.75	2.35	20

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Top View LED



UNIT: mm

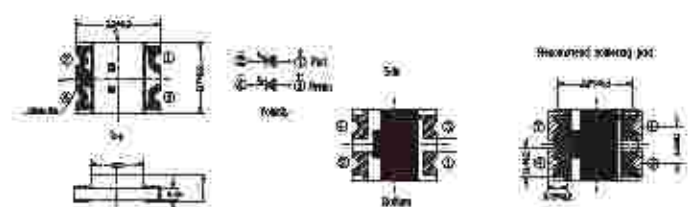


Part No.	Size (LxWxH)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mod) min.	I _v (mod) typ.	I _v (mod) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
ES-218HC-AUWYT	3.3x2.8x2.5	Blue	470	450	-	1800	3.7	3.8	3.7	20
ES-218HC-RED-AWZRE	3.3x2.8x2.5	Bright Red	624	115	470	-	1.7	2.0	2.4	20
ES-218VC-SEMI-A2TRR	3.3x2.8x2.5	Bright yellow	588	85	247	-	1.7	2.0	2.4	20
ES-218VC-SSM-A2TRR	3.3x2.8x2.5	Bright yellow Green	570	230	490	-	1.7	2.0	2.4	20
ES-218HC-ZV-WZHWTE	3.3x2.8x2.5	Blue	470	700	-	1100	2.45	-	3.75	20
ES-218VC-AWZRE	3.3x2.8x2.5	Bright yellow	588.5-594.5	280	-	900	1.7	2.0	2.4	20

SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



UNIT: mm

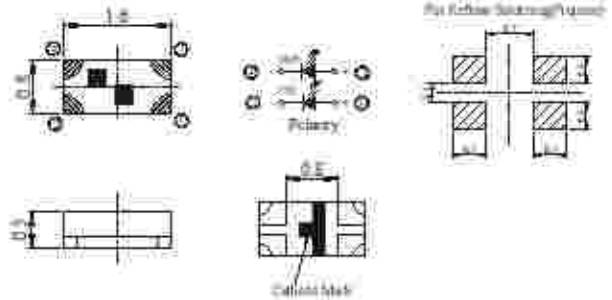


Part No.	Size (LxWxH)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mod) min.	I _v (mod) typ.	I _v (mod) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
ES-218BHC-A33DT	3.3x2.7x1.1	Bright Red Bright yellow Green	624.04 588.07	10.40 08.26	-	10.10 08.70	1.8 0.8-1.7	1.8 0.8	1.8 0.8-2.4	10.20 08.30
ES-218BHC-A330DT	3.3x2.7x1.1	Deep Red Yellow/Green	624.04 588.07	10.30 11.30	-	10.10 11.00	1.8 1.2-2.0	-	1.8 1.2-2.0	10.2 11.0
ES-218BHC-A31DT	3.3x2.7x1.1	Blue Bright yellow Green	470.475 588.075	10.40 08.26	-	10.10 08.70	1.8 0.8-1.1	1.8 0.8-2.0	1.8 0.8-2.4	10

SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



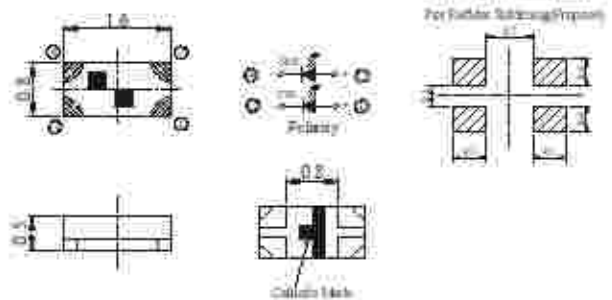
UNIT: mm



Product	Size (LxWxH/mm)	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _f (mcd) min	I _f (mcd) typ	I _f (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
16-225A80000-001 (2T)	1.6x0.8x0.5	● Blue	BB 470	BB 18/20.5	-	-	BB 2.7/3.3	BB 3.7	-	10
		● Brilliant Red	BB 628	BB 18/20.5	-	-	BB 1.7/2.0	BB 2.4	-	
16-225A80000-001 (2T)	1.6x0.8x0.5	● Brilliant Red	BB 628	BB 18/20.5	BB 11.2	BB 17.7/2	BB 1.7/2.0	BB 2.4	-	10
		● Brilliant Yellow Green	BB 573	BB 15/13.4	BB 12	BB 17.7/2	BB 1.7/2.0	BB 2.4	-	
16-225A80000-001 (2T)	1.6x0.8x0.5	● Brilliant Orange	BB 605	BB 30/16	-	-	BB 1.7/2.0	BB 2.4	-	10
		● Brilliant Yellow Green	BB 573	BB 15/13.4	-	-	BB 1.7/2.0	BB 2.4	-	



UNIT: mm



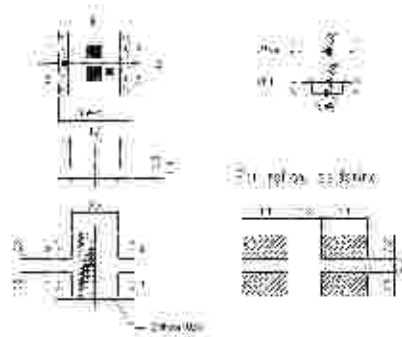
Product	Size (LxWxH/mm)	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _f (mcd) min	I _f (mcd) typ	I _f (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
16-225A80000W-001 (2T)	1.6x0.8x0.5	● Brilliant Red	BB 628	BB 20.5	-	BB 7.2	BB 1.7	BB 2	BB 2.8	10
	1.6x0.8x0.5	● Brilliant Green	BB 525	BB 7.2	-	BB 16	BB 2.7	BB 3.3	BB 3.7	10

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



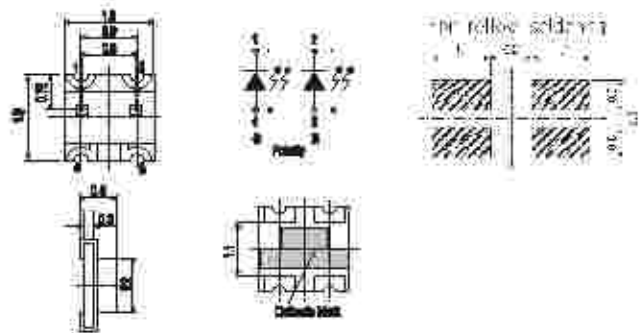
UNIT: mm



Product	Size (LxWxH/mm)	Color		I_f		V_f		IF (mA)
		Color	Wavelength nm / CIE	I_f (mcd) min	I_f (mcd) max	V_f (V) min	V_f (V) max	
19-2216S2HC-00V27	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Red ● Brilliant Green 	RS: 617.5-680.5 GR: 520-535	RS: 3 GR: 11.5	RS: 22.5 GR: 15	RS: 1.55 GR: 2.95	RS: 2.15 GR: 3.05	20



UNIT: mm

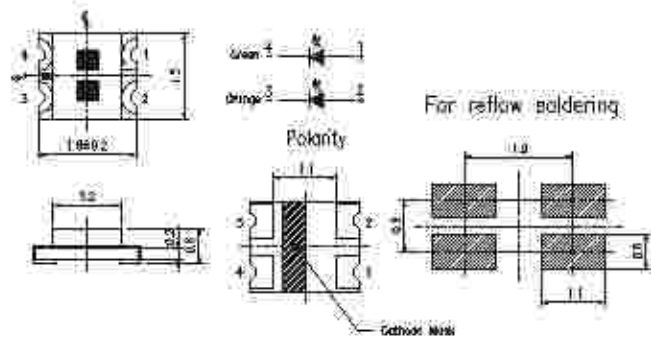


Product	Size (LxWxH/mm)	Color		I_f		V_f		IF (mA)
		Color	Wavelength nm / CIE	I_f (mcd) min	I_f (mcd) max	V_f (V) min	V_f (V) max	
15-2216S2HC-A4021	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Yellow Green ● Brilliant Red 	GR: 513 RE: 628	GR: 23.5 RE: 15	GR: 17 RE: 25	GR: 1.7/2 RE: 1.7/2	GR: 2.4 RE: 2.4	20
18-2216S2HC-00V21	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Red ● Blue 	RE: 628 BA: 470	RE: 18.5/25 BA: 14.5/25	-	RE: 1.5 BA: 2.5	RE: 2.5 BA: 3.5	20
18-2216S2HC-A4021	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Red ● Brilliant Yellow Green 	RE: 628 DS: 513	RE: 15 DE: 15	RE: 17 GR: 22	RE: 1.7/2 GR: 1.7/2	RE: 2.4 DS: 2.4	20
18-2216S2HC-00S21	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Red ● Brilliant Green 	RE: 628 GR: 525	RE: 14.5/25 GR: 10/25	-	RE: 1.5 GR: 2.5	RE: 2.5 GR: 3.4	20
18-2216S2HC-A4021	1.8x1.8x0.5	<ul style="list-style-type: none"> ● Brilliant Yellow ● Brilliant Yellow Green 	Y2: 585 DE: 513	Y2: 15 GR: 26.5	Y2: 11 GR: 22	Y2: 1.7/2 GR: 1.7/2	Y2: 2.4 GR: 2.4	20

SMD LED | Surface Mount Chip LED (PCB) | Top View Bi-Color



UNIT: mm



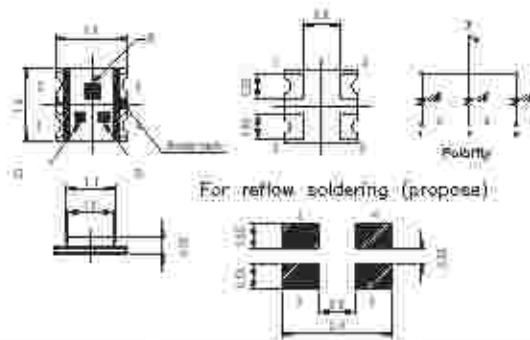
Product	Size (LxWxH)mm	Color		I _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) max	V _f (V) min	V _f (V) max	
1S-228V10C0-A010T	1.6x1.5±0.5	● Brilliant yellow Green ● Brilliant Orange	06: 572 07: 605	06: 30 07: 60	06: 30 07: 180	06: 2 07: 2	06: 2.4 07: 2.4	20
1S-228V10C0-A020T	1.6x1.5±0.5	● Brilliant Red ● Blue	08: 630 09: 470	08: 30 09: 30	08: 30 09: 110	08: 1.7/2 09: 2.7/3.3	08: 2.4 09: 3.7	20
1S-228V10C0-A030T	1.6x1.5±0.5	● Brilliant Red ● Brilliant yellow Green	05: 630 06: 572	05: 70 06: 30	05: 180 06: 57	05: 1.7/2 06: 1.7/2	05: 2.4 06: 2.4	20
1S-228V10C0-A040T	1.6x1.5±0.5	● Dark Red ● Blue	07: 630 08: 470	07: 30 08: 30	07: 110 08: 30	07: 1.7/2 08: 2.7/3.3	07: 2.4 08: 3.7/3.7	20
1S-228V10C0-F010T	1.6x1.5±0.5	● Dark Red ● Brilliant yellow Green	05: 630 06: 572	05: 18 06: 30	05: 70 06: 70	05: 2 06: 2	05: 2.4 06: 2.4	20
1S-228V10C0-A010T	1.6x1.5±0.5	● Brilliant Orange ● Blue	07: 605 08: 470	07: 30 08: 30	07: 180 08: 70	07: 1.7/2 08: 3	07: 3.4 08: 3.3	20
1S-228V10C0-C001T	1.6x1.5±0.5	● Brilliant Orange ● Pure White	07: 605 10: 325	07: 18 10: 45	07: 45 10: 110	07: 1.8 10: 2.7	07: 1.9 10: 3.3	5
1S-228V10C0-A010T	1.6x1.5±0.5	● Brilliant white ● Brilliant white Green	05: 660 06: 572	05: 45 06: 30	05: 70 06: 57	05: 1.7/2 06: 1.7/2	05: 2.4 06: 2.4	20

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Top View Full Color



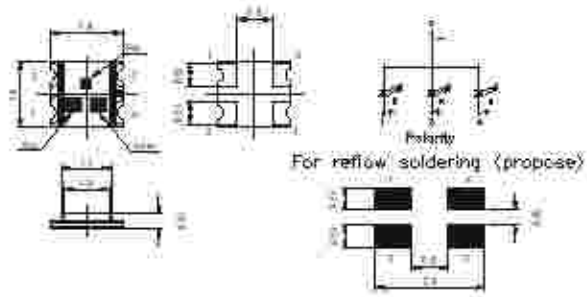
UNIT : mm



Product	Size (LxWxH)(mm)	Color			I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
1S-237A-BRHH01C-401CT	1.6x1.6x0.8	● Brilliant Red	661.514	70	-	200	1.7	-	3.4	20	
	1.6x1.6x0.8	● Brilliant Green	520.510	110	-	200	1.7	-	3.8	20	
	1.6x1.6x0.8	● Blue	465.515	120	-	110	2.7	-	3.8	20	



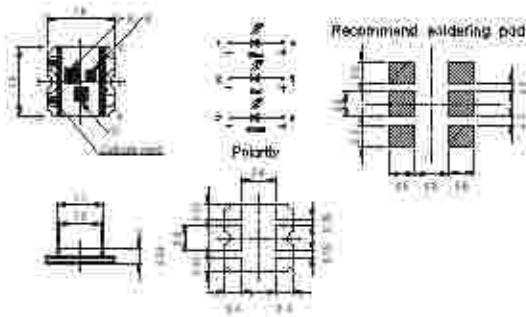
UNIT : mm



Product	Size (LxWxH)(mm)	Color			I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
1S-237B-BRHH01C-401CT	1.6x1.6x0.8	● Brilliant Red	661.515	80	-	200	1.7	-	3.4	20	
	1.6x1.6x0.8	● Brilliant Green	520.510	120	-	110	2.6	-	3.8	20	
	1.6x1.6x0.8	● Blue	465.515	110	-	200	2.5	-	3.8	20	



UNIT : mm

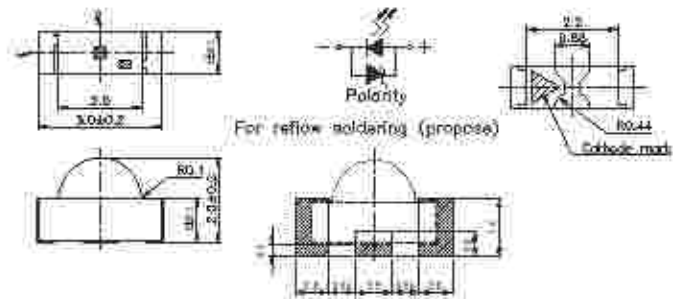


Product	Size (LxWxH)(mm)	Color			I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
1S-237C-BRHH01C-401CT	1.6x1.6x0.8	● Brilliant Red	661.514	70	-	200	1.7	-	3.4	20	
	1.6x1.6x0.8	● Brilliant Green	520.510	100	-	200	1.7	-	3.8	20	
	1.6x1.6x0.8	● Blue	465.515	30	-	30	2.7	-	3.8	20	

SMD LED | Surface Mount Chip LED (PCB) | Side View (0.2T-1.0T)



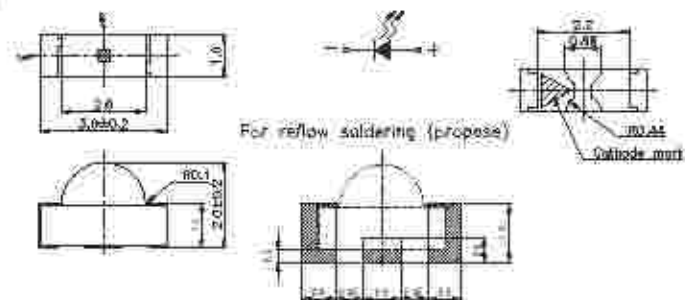
UNIT: mm



Product	Size (LxWxH/mm)	Color		I_f			V_f			IF (mA)
		Color	Wavelength nm / DIE	I_f (mcd) min.	I_f (mcd) typ.	I_f (mcd) max.	V_f (V) min.	V_f (V) typ.	V_f (V) max.	
12-11BHC-251M20V2C	3.0x2.0x1.0	Blue	470	11.5	-	28.5	2.7	-	3.2	5
12-11T3D-GPH02B12V2C	3.0x2.0x1.0	Pure White	-	10	-	11.2	2.7	-	3.4	5



UNIT: mm



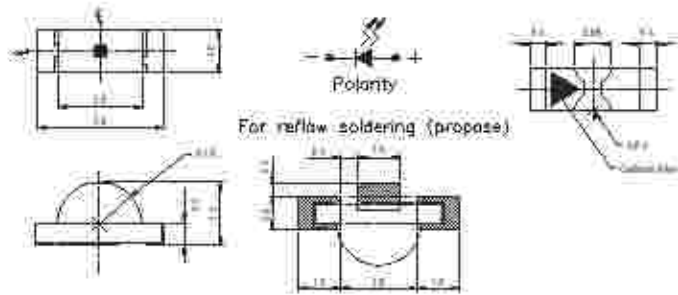
Product	Size (LxWxH/mm)	Color		I_f			V_f			IF (mA)
		Color	Wavelength nm / DIE	I_f (mcd) min.	I_f (mcd) typ.	I_f (mcd) max.	V_f (V) min.	V_f (V) typ.	V_f (V) max.	
12-21BHC-AN1P22C	3.0x2.0x1.0	Blue	470	28.5	-	72	2.7 / 3.5	-	3.7	20
12-21BHC-2UM25V2C	3.0x2.0x1.0	Blue	470	11.5	-	28.5	2.5	-	3.1	5
12-21BHC-YR25Q2C	3.0x2.0x1.0	Brilliant Green	525	110	-	28.5	3.5	-	4.5	20
12-21BHC-AN1P33C	3.0x2.0x1.0	Deep Red	630	28.5	-	72	1.75	-	2.55	20
12-21T3D-AQ252M2C	3.0x2.0x1.0	Pure White	$\lambda=0.27\mu\text{m}$ $\lambda=0.12\mu\text{m}$	10	-	11.2	2.75	-	3.35	20

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Side View (0.2T-1.0T)



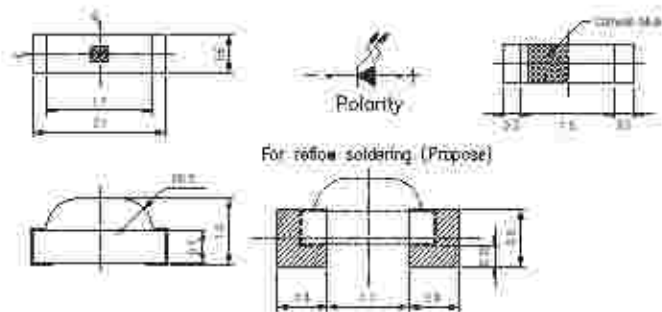
UNIT: mm



Product	Size (LxWxH)(mm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
13-21C9HC-3AHF20C	3.0x1.5x1.0	Blue	470	28.5	-	77	2.7 / 3.3	-	3.7	20
13-21C9HC-4S11850C	3.0x1.5x1.0	Bright Red	631	160	-	330	1.25	-	2.35	20
13-21C9HC-CP12212V2C	3.0x1.5x1.0	Clear White	450-470 / 460-470	40	-	110	3.7	-	3.4	5



UNIT: mm

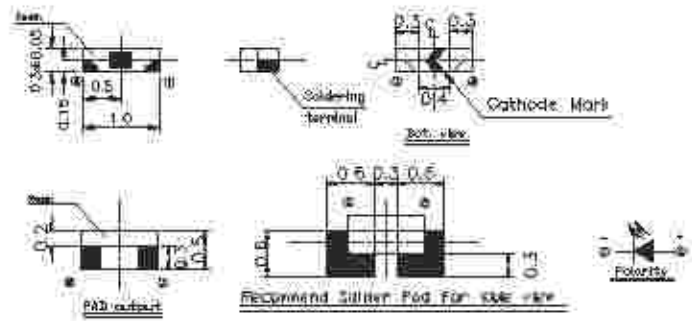


Product	Size (LxWxH)(mm)	Color		I _v		V _f		IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) max	V _f (V) min	V _f (V) max	
13-215850-AR1S1B3C	2.5x1.5x1.0	Bright Red	634	110	225	1.75	2.30	15
13-215850-AR1225C	2.5x1.5x1.0	Blue	470	40	150	2.7 / 3.3	3.7	15
13-215850-BCP2.0C	2.5x1.5x1.0	Bright Yellow Green	570	30	70	1.7	2.3	15
13-215850-40211W3C	2.5x1.5x1.0	White	-	30	60	3.7	3.15	15

SMD LED | Surface Mount Chip LED (PCB) | Side View (0.2T-1.0T)



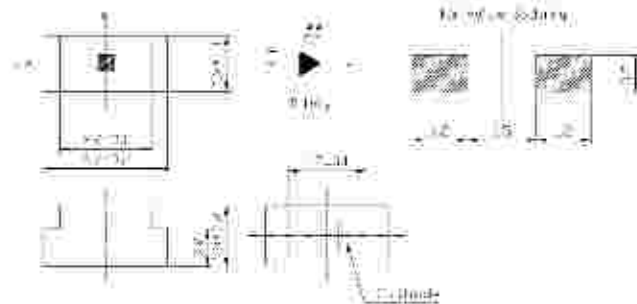
UNIT: mm



Product	Size (LxWxH)(mm)	Color		λ_e			V_f			IF (mA)
		Color	Wavelength nm / CIE	I_f (mcd) min	I_f (mcd) typ.	I_f (mcd) max	V_f (V) min	V_f (V) typ.	V_f (V) max	
15-015T1D-4FY020V171	1.5x0.5x0.2	Transparent	380-714 400-715	45	-	110	2.1	-	2.2	5



UNIT: mm



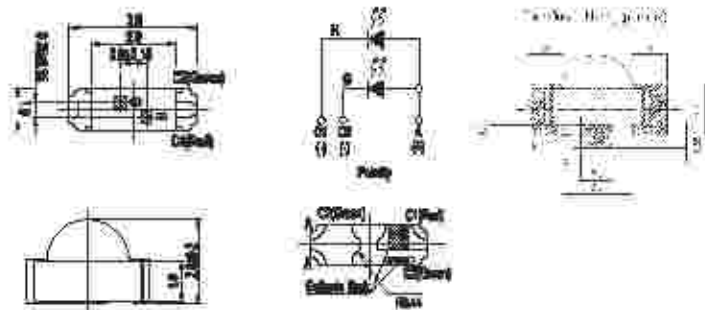
Product	Size (LxWxH)(mm)	Color		λ_e			V_f			IF (mA)
		Color	Wavelength nm / CIE	I_f (mcd) min	I_f (mcd) typ.	I_f (mcd) max	V_f (V) min	V_f (V) typ.	V_f (V) max	
20-216HG-YR15220	2.7x1.7x1.2	Bright Green	525	110	-	280	2.1	3.3	3.7	20
20-21V25CF-12M00	2.7x1.7x1.2	Bright Yellow	590	40	-	60	1.75	-	2.0	10
20-21R1C-A221AV20	2.7x1.7x1.2	Bright Red	620	3.8	-	140	1.55	-	2.15	5
20-216HG-4M1P010	2.7x1.7x1.2	Blue	470	25.0	-	72	3.3	-	4.0	20

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Side View Bi-Color



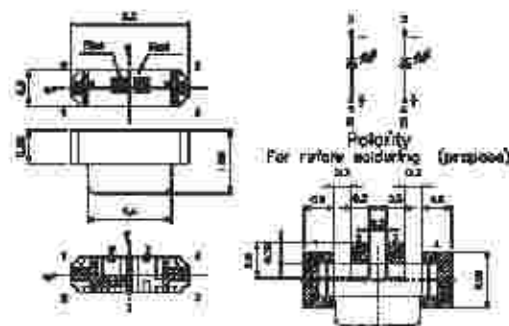
UNIT: mm



Product	Size (LxWxH)mm	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _f (mcd) min.	I _f (mcd) typ.	I _f (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
12-02BHR10-A0100	3.0x2.0x1.0	● Brilliant Red ● Blue	R6-624 B6-070	R6-22.5 B6-18	R6-30 B6-25	-	R6-1.7 B6-2.7	-	R6-2.2 B6-3.1	5
12-02BHR20-C0300	3.0x2.0x1.0	● Blue ● Brilliant Orange	B6-070 O6-505	B6-18 O6-18	-	B6-25 O6-35	B6-2.7 O6-1.7	B6-3.5 O6-2.6	B6-3.2 O6-2.8	5
12-02BHR10-A11000	3.0x2.0x1.0	● Red ● Yellow Green	R7-621 G6-573	R7-40 G6-15	-	R7-30 G6-21	R7-1.7 G6-1.7	R7-2.0 G6-2.6	R7-2.4 G6-2.4	20
12-02BHR10-C0300	3.0x2.0x1.0	● Brilliant Red ● Pure White	R6-624 W6-074 W6-076	R6-18 W6-12	-	R6-30 W6-10	R6-1.7 W6-2.8	-	R6-2.2 W6-2.8	5
12-02BHR10-A2000	3.0x2.0x1.0	● Brilliant Yellow Green ● Deep Red	G6-573 R6-624	G6-28.5 R6-28.5	-	G6-21 R6-21	G6-1.7 R6-1.7	G6-2.8 -	G6-2.4 R6-2.4	20
12-02BHR10-A0300	3.0x2.0x1.0	● Brilliant Red ● Brilliant Green	R6-624 G6-573	R6-18 G6-15	-	R6-30 G6-25	R6-1.7 G6-1.7	R6-2 G6-3.3	R6-2.4 G6-3.7	10
12-02BHR10-A0500	3.0x2.0x1.0	● Brilliant Yellow ● Brilliant Yellow Green	Y6-588 G6-573	Y6-45 G6-28.5	-	Y6-11.2 G6-21	Y6-1.7 G6-1.7	Y6-2.0 -	Y6-2.4 G6-2.4	20



UNIT: mm



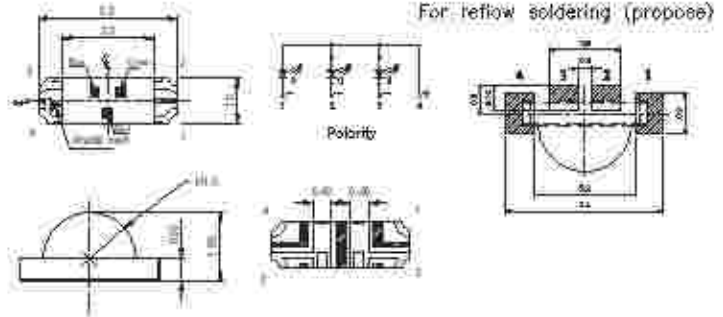
Product	Size (LxWxH)mm	Color		I _f			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _f (mcd) min.	I _f (mcd) typ.	I _f (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.	
12-02BHR10-C0300	2.0x1.0x0.5	● Blue ● Deep Red	B6-070 R7-621	B6-22.5 R7-14.5	-	B6-27 R7-20	B6-2.7 R7-1.55	-	B6-3.2 R7-2.15	5
12-02BHR10-C03000	2.0x1.0x0.5	● Brilliant Red ● Brilliant Yellow Green	R6-624 G6-573	R6-18 G6-15	-	R6-30 G6-25	R6-1.7 G6-1.55	-	R6-2.2 G6-2.15	5

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Side View Full Color



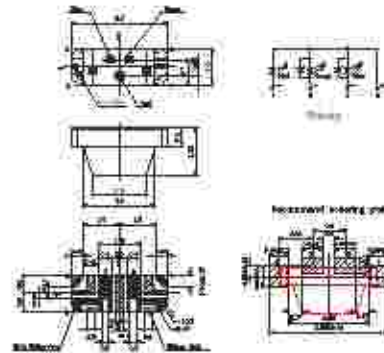
UNIT: mm



Product	Size (LxWxHmm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min	V _f (V) typ	V _f (V) max	
3528SMDLEDHC-A0100	3.0x1.5x1.0	Blue	BH 470	BH 30	BH 10	BH 3.3	BH 3.0			20
		Brilliant Red	RB 624	RB 85	RB 33	RB 2	RB 2.4			
		Brilliant Green	GH 525	GH 125	GH 180	GH 2.3	GH 3.3			
3528SMDLEDHC-A0100	3.0x1.5x1.0	Brilliant Orange	BH 610	BH 26	BH 33	BH 3.8	BH 3.3			20
		Brilliant Green	GH 525	GH 120	GH 210	GH 2.3	GH 3.3			
		Blue	BH 470	BH 32	BH 180	BH 2	BH 2.4			
		Blue	BH 470	BH 32	BH 180	BH 2	BH 2.4			



UNIT: mm

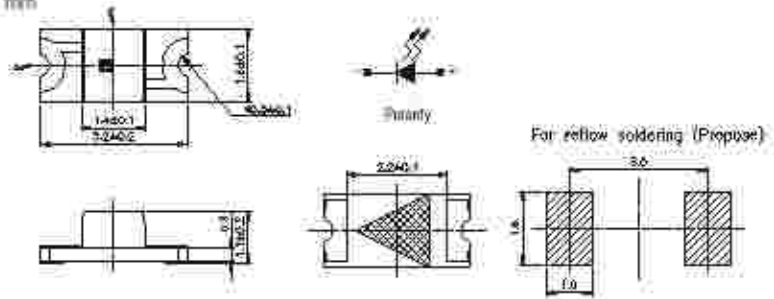


Product	Size (LxWxHmm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min	V _f (V) typ	V _f (V) max	
3528GLEDLEDHC-A0100	2.7x1.50x1.0	Blue	BH 470	25.5	40	-	2.7	3.3	3.7	20
	2.7x1.50x1.0	Brilliant Red	RB 624	45	75	-	1.7	2	2.4	20
	2.7x1.50x1.0	Brilliant Green	GH 525	112	180	-	2.7	3.3	3.7	20

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount



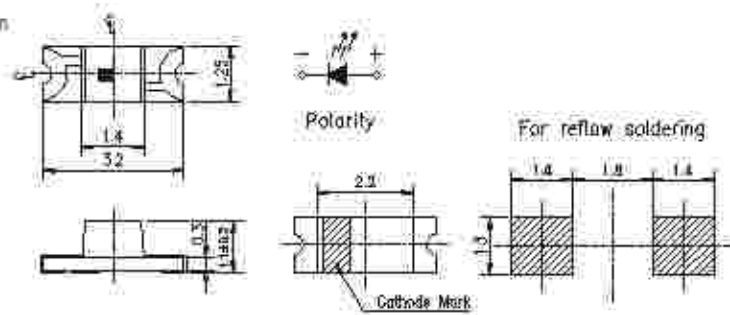
UNIT: mm



Product	Size (LxWxH/mm)	Color		I_f			V_f			I_F (mA)
		Color	Wavelength nm / OE	I_f (mA) min	I_f (mA) typ	I_f (mA) max	V_f (V) min	V_f (V) typ	V_f (V) max	
ES-218R00-AM-TX2VY2A	3.2x1.6x1.1	● Brilliant Red	634	18	-	45	1.50	-	2.15	5
ES-218H00-AM-TX2VY2A	3.2x1.6x1.1	● Brilliant Yellow Green	519	18.5	-	35	1.1	2.0	2.14	20
ZB-218B00-AM-TX2VY2A	3.2x1.6x1.1	● Blue	470	18	-	45	2.5	-	3	5



UNIT: mm



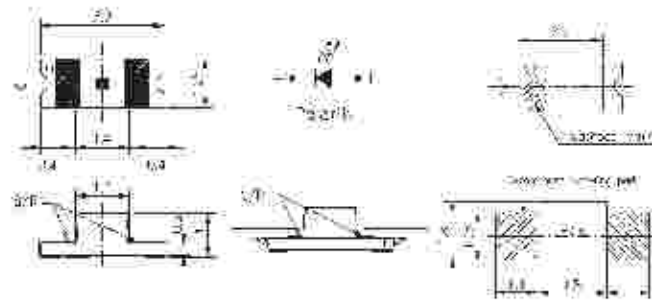
Product	Size (LxWxH/mm)	Color		I_f			V_f			I_F (mA)
		Color	Wavelength nm / OE	I_f (mA) min	I_f (mA) typ	I_f (mA) max	V_f (V) min	V_f (V) typ	V_f (V) max	
ES-218H00-AM-TX2VY2A	3.2x1.25x1.1	● Brilliant Yellow Green	519	22.5	-	57	1.7	2	2.4	20
ES-218B00-AM-TX2VY2A	3.2x1.25x1.1	● Blue	470	18	-	45	2.0	-	3	5
ES-218R00-AM-TX2VY2A	3.2x1.25x1.1	● Brilliant Orange	635	40.5	-	110	1.25	-	2.35	20
ZB-218B00-AM-TX2VY2A	3.2x1.25x1.1	● Pure White	Y: 625nm-635nm B: 465nm-475nm	17	-	110	2.5	-	3	5

SMD LED

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount



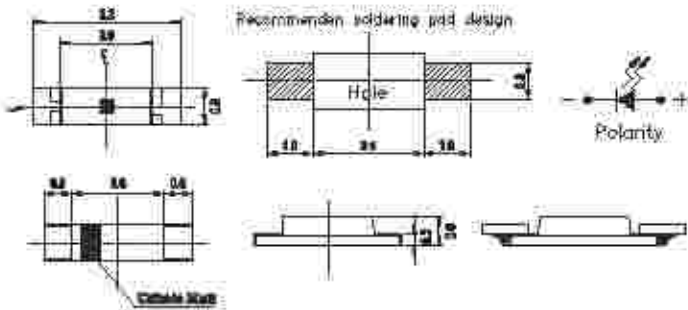
UNIT: mm



Product	Size (LxWxHmm)	Color			L			V			IF (mA)
		Color	Wavelength nm / CIE	L (mcd) min	L (mcd) typ	L (mcd) max	V _F (V) min	V _F (V) typ	V _F (V) max		
28-21A1020-CP202FV2A	3.2x1.25x1.1	Orange-Red	610-625	57	-	112	2.8	-	3	3	



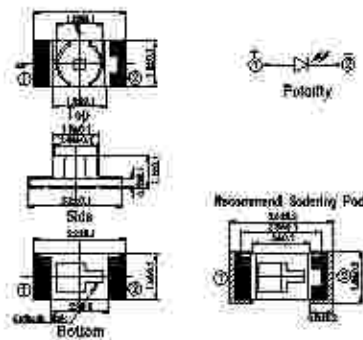
UNIT: mm



Product	Size (LxWxHmm)	Color			L			V			IF (mA)
		Color	Wavelength nm / CIE	L (mcd) min	L (mcd) typ	L (mcd) max	V _F (V) min	V _F (V) typ	V _F (V) max		
28-21A1020-DN202FV2A	3.2x0.9x0.6	Blue	470	25	-	90	2.75	-	3.65	20	



UNIT: mm

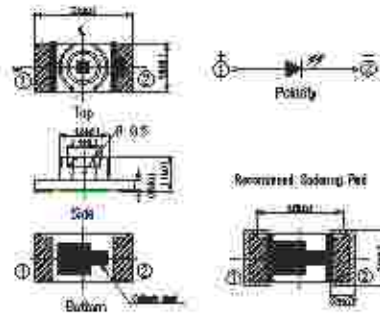


Product	Size (LxWxHmm)	Color			L			V			IF (mA)
		Color	Wavelength nm / CIE	L (mcd) min	L (mcd) typ	L (mcd) max	V _F (V) min	V _F (V) typ	V _F (V) max		
28-21GHC-YF2110A	3.2x1.6x1.1	Emerald Green	525	140	-	600	2.2	3.3	3.7	20	
28-21BHD-KY202A	3.2x1.6x1.1	Blue	470	45	-	112	2.7	3.3	3.7	20	

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount



UNIT: mm

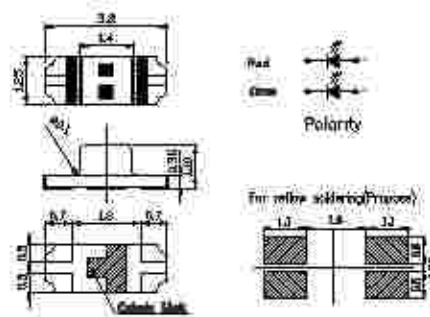


Product	Size (LxWxH/mm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
2522MBHC-VB02A	2.9x1.5x1.1	● Brilliant Green	520	180	-	710	3.5	3.7	4.3	20
2522MBHC-AR1002A	2.9x1.5x1.1	● Blue	470	110	-	280	2.10	-	3.00	20

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount Bi-Color



UNIT: mm

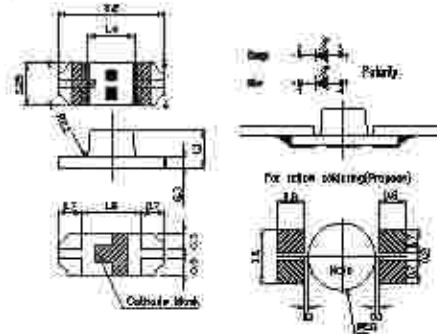


Product	Size (LxWxH/mm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
2522BRT06C-A202T	3.2x1.25x1.1	● Dark Red ● Brilliant Yellow Green	R7: 631 G6: 570	R7: 18 G6: 14.5	-	R7: 72 G6: 45	R7: 1.7 G6: 1.7	R7: 2 G6: 2	R7: 2.4 G6: 2.4	20
2522BRT06C-A202A	3.2x1.25x1.1	● Dark Red ● Brilliant Yellow Green	R7: 631 G6: 570	R7: 18 G6: 14.5	-	R7: 72 G6: 45	R7: 1.7 G6: 1.7	R7: 2 G6: 2	R7: 2.4 G6: 2.4	20
2522BRT303D-C202A	3.2x1.25x1.1	● Pure White ● Brilliant Orange	T9: A: 0.214 V0: 226 S2: 600	T2: 40 S2: 9	-	T2: 112 S2: 22.5	T2: 2.5 S2: 1.55	T2: 3.1 S2: 1.85	T2: 3.5 S2: 2.05	20

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount Bi-Color



UNIT: mm

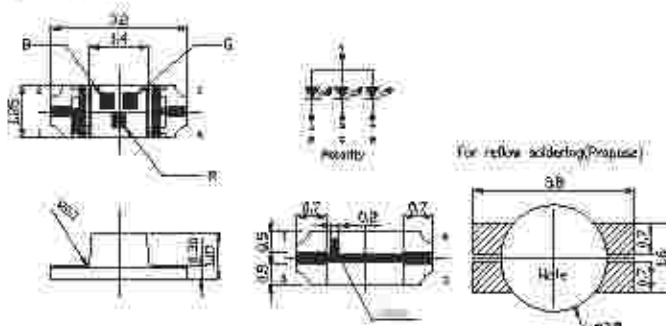


Product	Size (LxWxH/mm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
2822C05B2BHC-B300CA	2.2x1.25x1.1	● Brilliant Orange	62 / 605	22.5	-	27	1.7	2	2.4	10
	2.2x1.25x1.1	● Blue	470 / 470	22.5	-	27	2.7	3.3	3.7	10

SMD LED | Surface Mount Chip LED (PCB) | Reverse Mount Full Color



UNIT: mm

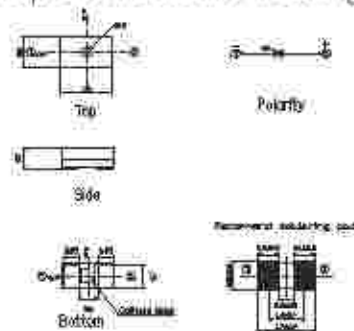


Product	Size (LxWxH/mm)	Color		I _v			V _f			IF (mA)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
2822B01G09H1C-401VCA	3.2x1.25x1.1	● Brilliant Red	660 / 624	70	100	-	1.7	2	2.4	20
	3.2x1.25x1.1	● Brilliant Green	520 / 520	140	200	-	2.7	3.3	3.7	20
	3.2x1.25x1.1	● Blue	470 / 470	45	60	-	2.7	3.3	3.7	20

SMD LED | Surface Mount Chip LED (PCB) | Top View Double Molding 1609



UNIT: mm

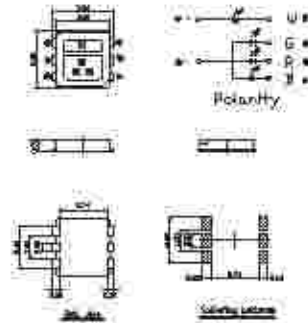


Product	Size (LxWxH/mm)	Color		I _v		V _f		IF (mA)	View Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) max	V _f (V) min	V _f (V) max		
B1800F0013-0100011002005-1T	3.8x3.8x2.7	● Brilliant Orange	620	45	47	2.4	3	5	120
B1800F0013-0100011002005-1T	3.8x3.8x2.7	● Yellow White	590	45	47	2.4	3	5	120
B1800F0013-0100011002005-1T	3.8x3.8x2.7	● Pure Green	520	45	47	2.4	3	5	120

SMD LED | Surface Mount RGBW | Side View C3231



UNIT: mm

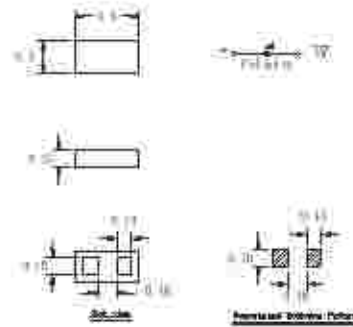


Product	Size (LxWxH)mm	Color	L _t (mm)	V _f			IF (mA)	View Angle(°)
		Color		V _f (V) min	V _f (V) typ	V _f (V) max		
C3231 (FF)MARS-RGBW001 30-IT	3.2x3.6x0.95	● Brilliant Red	580-1120	1.7	2.3	2.7	20	min 120 30-120 typ 140
	3.2x3.6x0.95	● Brilliant Green	540-590	2.4	2.9	3.4	20	
	3.2x3.6x0.95	● Brilliant Blue	505-710	2.4	3.0	3.6	20	
	3.2x3.6x0.95	White	650-750	2.9	3.5	4.1	20	

SMD LED | Surface Mount CSP | CSP0603



UNIT: mm

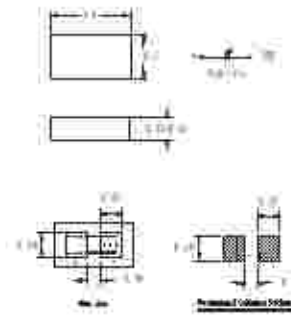


Product	Size (LxWxH)mm	Color	L _t			V _f			IF (mA)	View Angle(°)
		Color	L _t (min) min	L _t (typ) typ	L _t (max) max	V _f (V) min	V _f (V) typ	V _f (V) max		
CSP0603AN101-WP3000S0001-3T	0.6x0.3x0.15	White	54	55	100	2.4	2.6	3	1	150
CSP0603AN101-RE3000S0001-3T	0.6x0.3x0.15	● Brilliant Red	50	50	220	1.2	1.60	2.0	0	130
CSP0603AN101-GP3000S0001-3T	0.6x0.3x0.15	● Pure Green	55	55	90	2.1	2.4	2.7	5	150
CSP0603AN101-BP3000S0001-3T	0.6x0.3x0.15	● Blue	3	100	10	2.8	2.9	3	1	150
CSP0603AN101-CP3000S0001-3T	0.6x0.3x0.15	● Amber	26	40	71	2.4	2.6	3	1	150

SMD LED | Surface Mount CSP | CSP1005



UNIT: mm

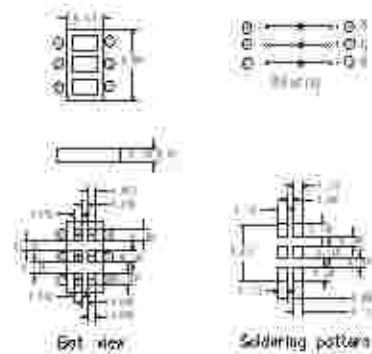


Product	Size (LxWxH/mm)	Color	L			V _f			IF (mA)	View Angle(°)
		Color	L ₁ (min) mm	L ₂ (typ) mm	L ₃ (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max		
CSP1005BN101-WP3540-53205-3T	1.0x0.5x0.27	White	605	450	800	2.4	2.60	3	5	120
CSP1005BN101-WP3540-53205-3T	1.0x0.5x0.27	Orange/Red	775	450	1400	2.1	2.4	2.7	40	120
CSP1005BN101-CP31531903340-3T	1.0x0.5x0.27	Pure Green	1800	1000	3000	2.8	2.8	3.2	30	100
CP-PureBlue101-CP31531903340-3T	1.0x0.5x0.27	Blue	600	750	1300	2.0	2.8	3.1	30	120

SMD LED | Surface Mount CSP | CSP0804



UNIT: mm



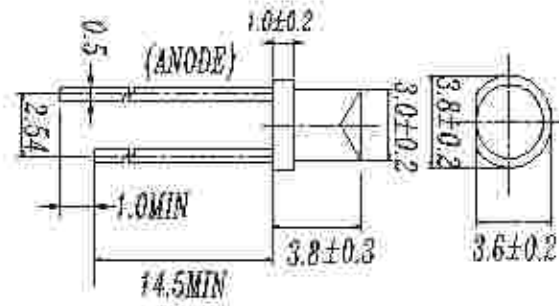
Product	Size (LxWxH/mm)	Color	L			V _f			IF (mA)	View Angle(°)
		Color	L ₁ (min) mm	L ₂ (typ) mm	L ₃ (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max		
CSP0805BN101-FC0804010-0T	0.8x0.25x0.15	Orange/Red	20	21.8	30	1.8	1.93	2.4	17	150
	0.8x0.25x0.15	Bright Green	120	195.3	230	2.1	2.08	3.1	17	100
	0.8x0.25x0.15	Bright Blue	20	33.8	30	2.1	2.6	3.1	17	150

SMD LED

LED Lamps - 3mm Round Type



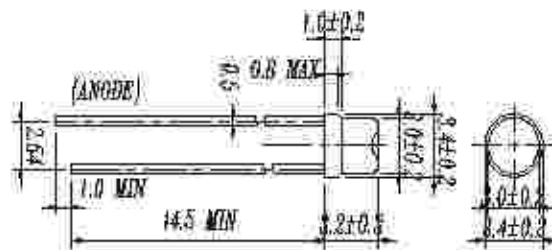
UNIT: mm



Product	Dimension (mm)	Color		L _v			V _f			I _F (mA)	Viewing Angle(°)
		Color	Wavelength (nm / nm)	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
494-105UR75530-A3	3	▶ Brilliant Yellow Green	524	13	20	-	1.7	2	2.4	30	130
494-105Y75530-E3	3	▶ Brilliant Yellow	573	5.3	23	-	1.7	2	2.4	30	80
494-10U75530-A3	3	▶ Brilliant Yellow Green	520	40	50	-	1.7	2	2.4	30	180
494-10U75530-A3	3	▶ Brilliant Red	628	18	30	-	1.7	2	2.4	30	130



UNIT: mm

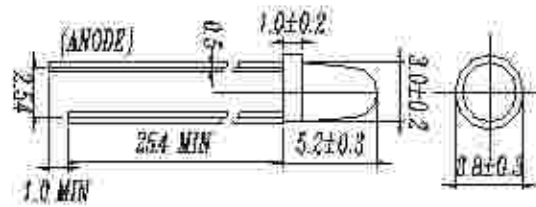


Product	Dimension (mm)	Color		L _v			V _f			I _F (mA)	Viewing Angle(°)
		Color	Wavelength (nm / nm)	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
494-105UR75530-A3	3	▶ Brilliant Orange	524	70	50	-	1.7	2.0	2.8	30	100
494-105Y75530-E2	3	▶ Brilliant Red	628	10	20	-	1.7	2.0	2.8	30	100
4945155DC4705400-44	3	▶ Brilliant Yellow Green	520	10	50	-	1.7	2.8	3.7	30	100

LED Lamps | 3mm Round Type



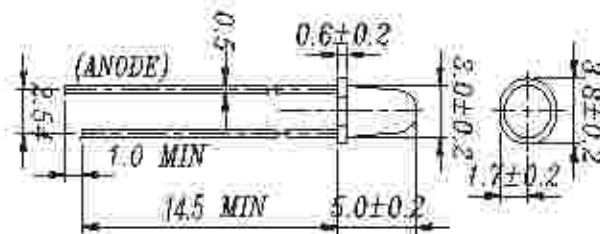
UNIT: mm



Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
12341025URC/3330-A3	3	White	324	160	400	-	1.7	2	2.4	20	30
12345678901234-A3	3	Super Bright Orange	620	200	500	-	-	2	2.4	20	30
1234567890123456-A3	3	Green	470	250	500	-	2.1	2.3	2.7	20	30
123456789012345678-A3	3	Bright Yellow Orange	590	1000	2000	-	2.1	2.3	2.7	20	30
1234567890123456789-A3	3	Bright Yellow	570	60	100	-	1.7	2	2.4	20	30
12345678901234567890-A3	3	Bright Red	630	300	500	-	1.7	2	2.4	20	30
1234567890123456789012-A3	3	Blue	460-280nm±20	1000	-	4000	2.8	-	4	20	25



UNIT: mm



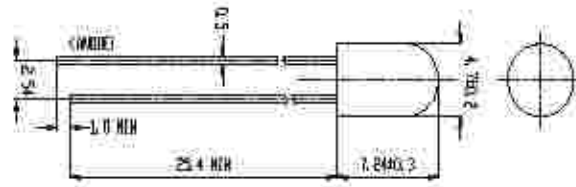
Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
12341025URD5500-A3	3	Super Deep Red	670	100	150	-	1.7	2	2.4	20	30
12341025URD5500-A3	3	Bright Yellow	570	150	500	-	-	2	2.4	20	30
12341025URD5500-A3	3	Deep Red	620	200	500	-	1.7	2	2.4	20	30
12341025URD5500-A3	3	Deep Red	630	300	500	-	-	2	2.4	20	30
12341025URD5500-A3	3	Bright Red	630	40	50	-	1.7	2	2.4	20	30
12341025URD5500-A3	3	Hyper Red	670	900	500	-	1.7	2	2.4	20	30
12341025URD5500-A3	3	Bright Yellow Green	560	100	200	-	1.7	2	2.4	20	30
12341025URD5500-A3	3	Bright Yellow Green	560	200	500	-	1.7	2	2.4	20	30

LED Lamps

LED Lamps | 5mm Round Type



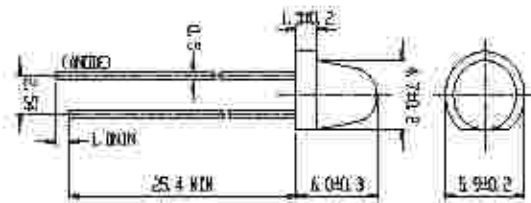
UNIT : mm



Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
813-25VBCG070S100-44	4.7	●Emission Yellow Green	470	100	1000	-	-	3.4	4	30	30
313-25URV0000-43	6.3	●Emission Yellow	524	80	100	-	1.7	2	2.4	20	40
813-25VCG0000-82	4.7	●Emission Red	670	100	300	-	1.7	2	2.4	30	30
313-25VGV0000-82	6.3	●Blue	470	40	80	-	1.7	2	2.4	20	40
813-25VGB0000-44	4.7	●Emission Yellow Green	520	100	300	-	1.7	2	2.4	30	30



UNIT : mm

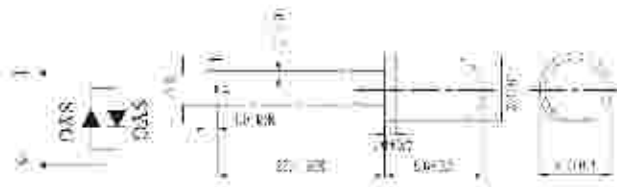


Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
313-25URV0000-43	4.7	●Blue	470	20	80	-	-	2	2.4	20	60
313-25URV0000-43	4.7	●Blue	470	80	150	-	1.7	2	2.4	20	40
313-25VGB0000-82	4.7	●Emission Red	670	40	80	-	1.7	2	2.4	20	60

LED Lamps 5mm Round Type



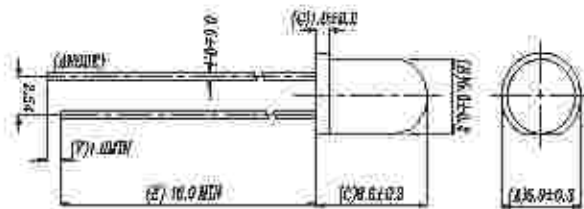
UNIT: mm



Product	Dimension (mm)	Color		L _v			V _v			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) typ	L _v (max) max	V _v (V) min	V _v (V) typ	V _v (V) max		
13591RSYGW5530-A3	5	White	R:524 G:573	48	32	-	1.7	2	2.4	20	90
13591YOGW5530-E2	5	Brilliant Red Brilliant Yellow Green	623	8	15	-	1.7	2	2.4	20	90
536RVEYGW5530-A3	5	Brilliant Yellow Green	G:573 R:524	-	-	-	-	2	2.4	20	90



UNIT: mm

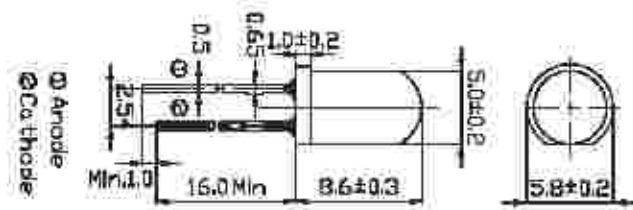


Product	Dimension (mm)	Color		L _v			V _v			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L _v (min) mm	L _v (max) typ	L _v (max) max	V _v (V) min	V _v (V) typ	V _v (V) max		
133-251RC/5530-A4	5	Brilliant Red	630	400	1000	-	1.7	2	2.4	20	90
133-251RC/5530-A3	5	Brilliant Yellow	597	100	180	-	-	2	2.4	20	90
133-251BC/5530-A4	5	Deep Red	670	1200	2000	-	-	2.4	4	20	90
133-251BC/5530-A3	5	Brilliant Yellow Green	577	200	300	-	2.7	3.3	3.7	20	90
133-251BC/5400-A3	5	Blue	470	4000	5000	-	-	3.4	4	20	90
133-251BC/5400-A2	5	Brilliant Green	524	500	800	-	1.7	2	2.4	20	90
133-251RD/5530-A2	5	Deep Red	670	100	200	-	-	2	2.4	20	90
133-251YG/5530-E2	5	Brilliant Red	670	200	400	-	-	2	2.4	20	90
133-251YD/5530-E2	5	Blue	470	40	80	-	1.7	2	2.4	20	90
133-251G/5400-E2	5	Brilliant Yellow Green	577 (550nm)	1000	-	2000	2.8	-	3.4	20	15
133-251G/5400-A2	5	Deep Red	670	1500	3000	-	-	2	2.4	20	90
133-251G/5530-A2	5	Brilliant Yellow Green	577	500	1000	-	1.7	2	2.4	20	90
133-251G/5530-A3	5	White	520	150	300	-	1.7	2	2.4	20	90
133-251G/5530-A3L	5	Brilliant Yellow	597	300	1200	-	-	2	2.4	20	90

LED Lamps | 5mm Round Type



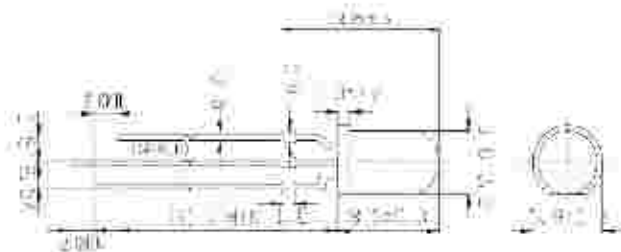
UNIT: mm



Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) min.	V _f (V) typ.	V _f (V) max.		
334-15P1C1-1Y2A	5	Warm White	x=0.29, y=0.29	1600	-	3700	2.8	-	3.8	20	15°
334-15P1C3-1Y1A	5	White	x=0.29, y=0.29	1300	-	2300	2.8	-	3.8	20	15°
334-15P1C5-0Y1A	5	White	x=0.29, y=0.29	400	-	800	2.8	-	3.8	20	15°
334-15P1C3-1A2A	5	White	x=0.29, y=0.29	2000	-	3000	2.8	-	3.8	20	15°
334-15T1C1-45Y6	5	White	x=0.29, y=0.29	1400	-	2800	2.8	-	3.8	20	15°
334-15T1C3-2Y1A	5	White	x=0.29, y=0.27	2100	-	3400	2.8	-	3.8	20	30°
334-15T1C3-1Y1A	5	Yellow Orange	x=0.31, y=0.31	710	-	1400	2.8	-	3.8	20	30°
334-15T1C5-1C5A	5	White	x=0.29, y=0.29	360	-	710	2.8	-	3.8	20	60°
334-15T2C3-2Y1A	5	White	x=0.29, y=0.27	710	-	1400	2.8	-	3.8	20	30°
334-15T2C5-1P5B	5	White	x=0.29, y=0.29	280	-	550	2.8	-	3.8	20	60°
334-15T2C5-1Q5B	5	White	x=0.29, y=0.29	360	-	710	2.8	-	3.8	20	60°
334-15P1C5-1D5B	5	White	x=0.29, y=0.29	600	-	1000	2.8	-	3.8	20	20°
334-15P1C5-1Q5A	5	Warm White	x=0.31, y=0.29	350	-	710	2.8	-	3.8	20	60°
334-15P2C3-1Y1A	5	White	x=0.29, y=0.29	1400	-	2800	2.8	-	3.8	20	15°
334-15P2C5-1Y1A	5	Warm White	x=0.31, y=0.29	710	-	1400	2.8	-	3.8	20	30°
334-15P2C5-1P5B	5	Warm White	x=0.29, y=0.29	280	-	550	2.8	-	3.8	20	60°



UNIT: mm



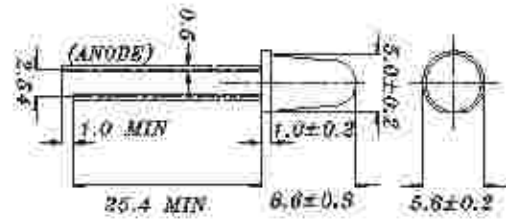
Product	Dimension (mm)	Color		I _v			V _f		IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) typ.	I _v (mcd) max.	V _f (V) typ.	V _f (V) max.		
338-15URSY3W/5330-A3	5	● TriLux Red ● TriLux Yellow Green	634 / 575	2519	3720	3.8	2.4	20	70	
338-15YH1QW/5330-A3	5	● TriLux Yellow ● TriLux Yellow Green	593 / 575	3392	5000	2.4	2.4	20	70	

LED Lamps

LED Lamps 5mm Round Type



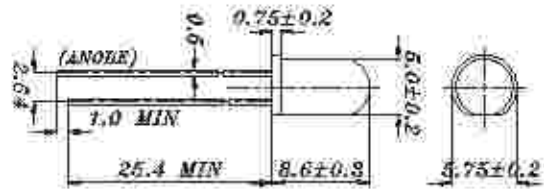
UNIT: mm



Product	Diameter (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
3MS25URC/S130-A3	5	Brilliant Yellow	578	1100	2000	-	-	2	2.4	20	5
3MS25URC/S140/S140-A4	5	Super Yellow	575	600	2500	-	2.7	3.2	3.7	20	20
3MS25URC/S400-S4	5	Super Deep Red	625	2000	4000	-	-	3.4	4	20	20
3MS25URC/S400-A6	5	Blue	454	600	1000	-	3.7	4	4.8	20	5
3MS25URC/S100-A2	5	Super Green	524	1100	2500	-	-	2	2.4	20	5
3MS25URC/S150-E2	5	Super Red	623	700	200	-	-	3	3.4	20	15
3MS25URC/S150-E2	5	Brilliant Red	615	40	80	-	3.7	4	4.4	20	20
3MS25URC/S150-A5	5	Brilliant Yellow Green	555	600	1000	-	-	3	3.4	20	5
3MS25URC/S150-A3	5	Brilliant Yellow Green	555	2210	4200	-	3.7	4	4.4	20	5



UNIT: mm

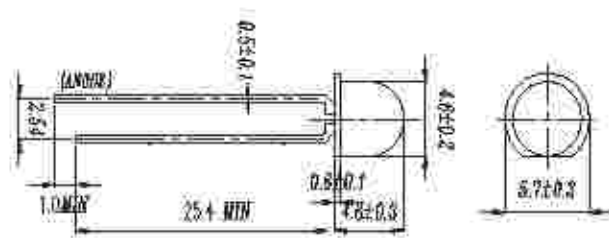


Product	Diameter (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
3MS25URC/S130-A3	5	Brilliant Yellow	578	100	200	-	-	2	2.4	20	30
3MS25URC/S130-A3	5	Super Brilliant Orange	624	200	600	-	3.7	4	4.4	20	40
3MS25URC/S130-A3	5	Brilliant Red	628	100	200	-	3.7	4	4.4	20	30
3MS25URC/S130-E2	5	Deep Red	627	100	200	-	3.7	4	4.4	20	25
3MS25URC/S130-A3	5	Brilliant Yellow Green	555	80	200	-	3.7	4	4.4	20	35

LED Lamps | 5mm Round Type



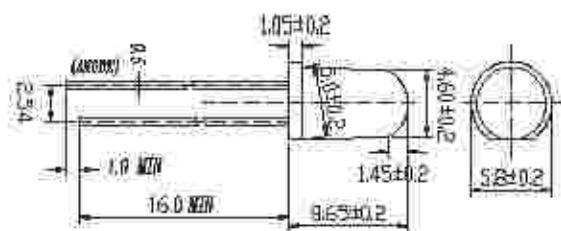
UNIT: mm



Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
5024P(CS-IL6A)	4.6	Blue	440.29±0.26	625	-	380	2.8	-	3.6	20	100
5024T2(BG)R240-X10	4.6	Super Deep Red	670	200	300	-	2.7	3.3	3.7	20	70
5024T05(GD)S40-AC	4.6	Brilliant Yellow	578	650	1200	-	2.7	3.3	3.7	20	60
5024T2(BG)C240-AT	4.6	White	624	700	300	-	1.7	2	2.4	20	100
5024T07(CS)S30-AE	4.6	Brilliant Red	630	300	300	-	1.7	2	2.4	20	70



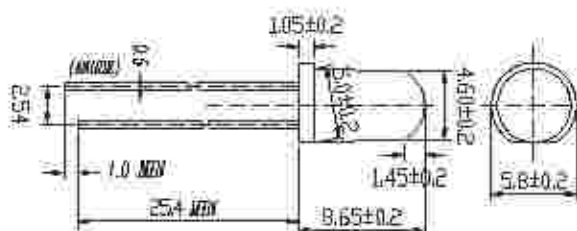
UNIT: mm



Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
7343-25U(GD)S600-VB	4.6	Blue	470	1100	3700	-	2.7	3.3	3.7	20	30
7343-25U(GD)S300-AB	4.6	Brilliant Green	524	700	300	-	1.7	2	2.4	20	100
7343-25U(BG)S600-AB	4.6	Brilliant Yellow Brilliant Yellow Green	570	650	1200	-	-	2	3	20	20
7343-25U(CS)S470-K02	4	Brilliant Red	670	64	-	31	2.8	-	3.4	5	30



UNIT: mm



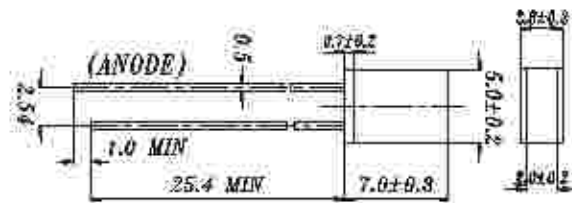
Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
7344-125U(BG)C470S40-AB	4.6	Brilliant Green	524	1100	300	-	2.7	3.3	3.7	20	30
7344-125U(GD)S300-AE	4.6	Blue	470	6000	8000	-	2.7	3.3	3.7	20	30
7344-125U(GD)S400-KF	4.6	Brilliant Green	524	8000	11200	-	2.7	3.3	3.7	20	30

LED Lamps

LED Lamps | Rectangular



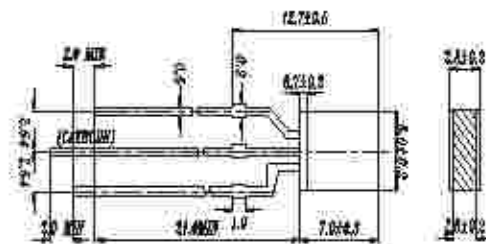
UNIT: mm



Product	Dimension (mm)	Color		L			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L ₁ (mcd) min	L ₂ (mcd) typ	L ₃ (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
3194U10D5030-A3	2x5	● Brilliant White	534	10	20	-	-	2	2.4	20	180
3194U10D5030-A2	2x5	● Hyper Red	577	5.0	10.0	-	-	2	2.4	20	140
3101YD105030-A3	2x5	● Super Yellow Green	588	20	30	-	-	2	2.4	20	150



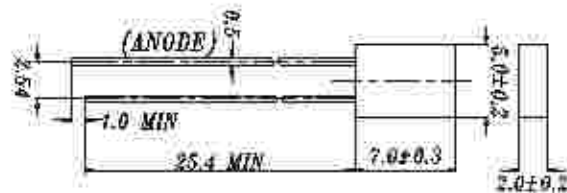
UNIT: mm



Product	Dimension (mm)	Color		L			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L ₁ (mcd) min	L ₂ (mcd) typ	L ₃ (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
315-10URS10DWS5030-A3	2.0x5.0	● Brilliant Red	631	1.7	2.0	2.4	6.3	12.5	20	180	
		● Brilliant Yellow Green	578	1.7	2.0	2.4	2.5	3.0	20	180	



UNIT: mm

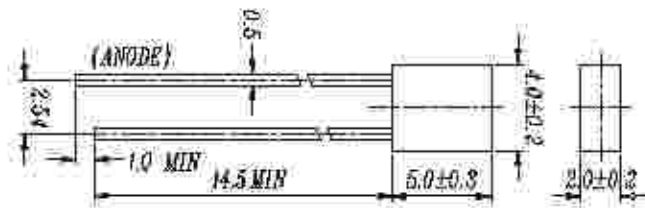


Product	Dimension (mm)	Color		L			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L ₁ (mcd) min	L ₂ (mcd) typ	L ₃ (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
020C08RD1030-A3	2.0 x 3.0	● Brilliant Yellow Green	538	10	16	-	-	2	2.4	20	120
020C08B10C1030-A3	2.0 x 3.0	● Super White	480	10	20	-	2.7	3.3	20	100	
020C08D064030-A3	2.0 x 3.0	● Deep Red	625	160	220	-	2.7	3.3	20	100	
020C08A05030-A3	2.0 x 3.0	● Brilliant Blue	450	16	20	-	1.7	2	2.4	20	120
020C08D05030-A3	2.0 x 3.0	● Brilliant Red	630	8.3	12.5	-	1.7	2	2.4	20	120
020C08B05030-E2	2.0 x 3.0	● Blue	470	4	8	-	1.7	2	2.4	20	110
020C08D05030-A3	2.0 x 3.0	● Brilliant Yellow	581	16	20	-	-	2	2.4	20	100

LED Lamps | Rectangular



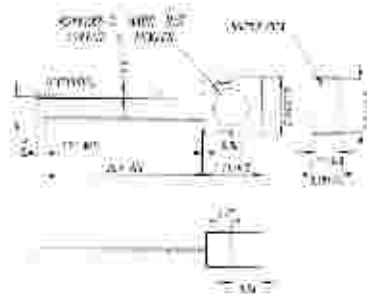
UNIT: mm



Product	Dimension (mm)	Color		L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm / CIE)	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
5545URD/S530-A3	2.0 x 4.0	Brilliant Green	524	10	16	-	1.7	2.0	2.4	20	110
5545URD/S530-E3	2.0 x 4.0	Brilliant Red	672	4	8	-	1.7	2.0	2.4	20	180
5545URD/S530-A3	2.0 x 4.0	Brilliant Yellow Green	578	10	20	-	1.7	2.0	2.4	20	180



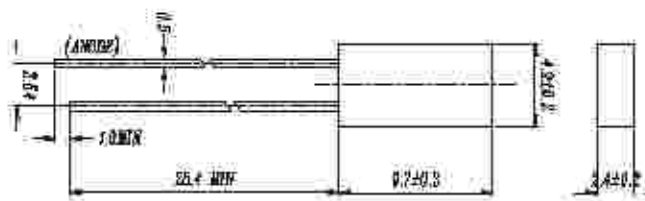
UNIT: mm



Product	Dimension (mm)	Color		L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm / CIE)	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
11088URD/S330-A3	3.88 x 6.22	Brilliant Yellow Green	578	10	20	-	1.7	2.3	4	20	110
11088URD/S330-A4	3.88 x 6.22	Blue	470	16	30	-	3.2	4	5	20	110
11088URD/S330-A3	3.88 x 6.22	Brilliant Green	524	25	50	-	1.7	2	2.4	20	110
11088URD/S330-E3	3.88 x 6.22	Brilliant Red	672	13	23	-	1.7	2	2.4	20	110



UNIT: mm

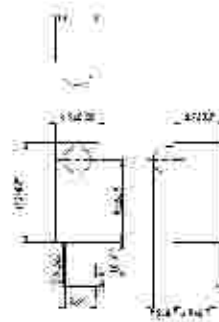


Product	Dimension (mm)	Color		L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm / CIE)	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
15325URD/S530-A3	2.4 x 4.5	Brilliant Green	524	10	20	-	1.7	2	2.4	20	170
15325URD/S530-A5	2.4 x 4.5	Brilliant Red	672	10	20	-	1.7	2	2.4	20	180

LED Lamps | 3mm Assembly LED



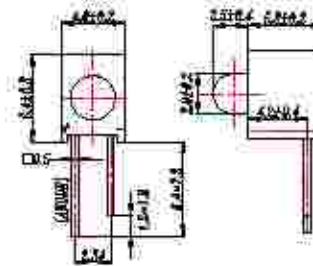
UNIT : mm



Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm) CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
A224B5YGR330E2	3	Bullseye Yellow	573	25	30	-	1.7	2.0	2.4	25	60



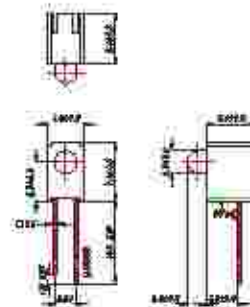
UNIT : mm



Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm) CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
A214B5YGR330-A3	3	Bullseye Yellow	575	630	700	-	2.7	3.3	3.7	20	30
A214B5YGR330-YL	3	Bullseye Yellow Green	565	30	70	-	1.7	2	2.4	30	60



UNIT : mm



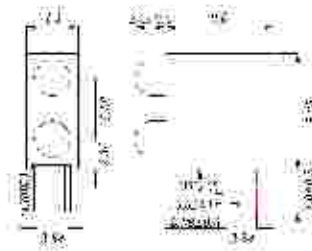
Product	Dimension (mm)	Color		I _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm) CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
A254B5YGR330-A3	3	Bullseye Red	476	160	230	-	2.7	3.3	3.7	20	30
A254B5YGR330-A3	3	Bullseye Green	524	30	70	-	1.7	2	2.4	30	60
A254B5YGR330-E2	3	Blue	473	25	30	-	1.7	2	2.4	20	60
A254B5YGR330-A3	3	Bullseye Yellow Green	565	30	70	-	1.7	2	2.4	30	60

LED Lamps

LED Lamps: 3mm Assembly LED



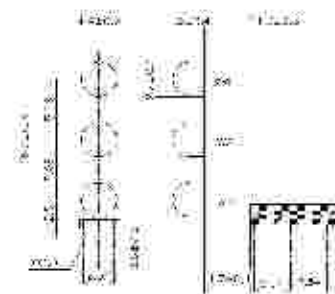
UNIT: mm



Product	Dimension (mm)	Color		I _v			V _f			I _F (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	V _f (V) min	V _f (V) typ	V _f (V) max			
A6348251R/5530-A2	3	Yellow/Green	524	10	20	1.7	2.0	2.4	20	60°	
A6348251R/5530-B2	3	Yellow/Red	573	20	30	-	2.0	2.4	20	60°	
A6348251R/5530-A3	3	Yellow/Green	524	14	22	1.7	2.0	2.4	20	60°	
A6348251R/5530-B3	3	Yellow/Red Yellow/Green	524 573	10 20	20 30	1.7	2.0	2.4	20	60°	
A6348251R/5530-A3	3	Yellow/Green Yellow/Red	524 573	10 20	20 30	1.7	2.0	2.4	20	60°	



UNIT: mm

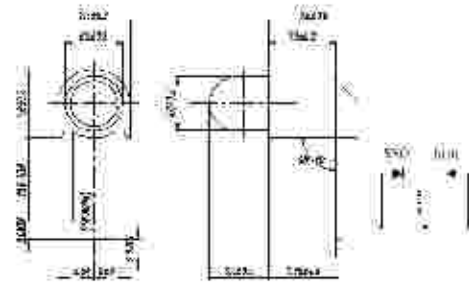


Product	Dimension (mm)	Color		I _v			V _f			I _F (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
A1548251R/5530-A3	3	White/Orange	524	63	120	-	1.7	2	2.4	20	60°
A6348251R/5530-B2	3	Yellow/White Green	573	20	30	-	1.7	2	2.4	20	60°

LED Lamps: 1.5mm Assembly LED



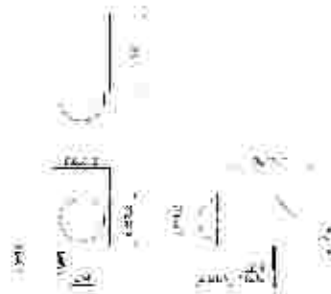
UNIT: mm



Product	Dimension (mm)	Color		I_v			V_f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / DQE	I_v (mcd) min.	I_v (mcd) typ.	I_v (mcd) max.	V_f (V) min.	V_f (V) typ.	V_f (V) max.		
A1475-1B5UR5V0M50E-A3	5	● Brilliant Red	624	20	50	-	1.7	2.0	2.4	20	100
	5	● Brilliant Yellow Green	553	40	50	-	1.4	2.0	2.4	20	100



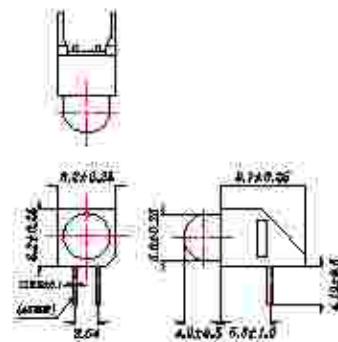
UNIT: mm



Product	Dimension (mm)	Color		I_v			V_f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / DQE	I_v (mcd) min.	I_v (mcd) typ.	I_v (mcd) max.	V_f (V) min.	V_f (V) typ.	V_f (V) max.		
A23B5LW5-ES-A6	4.7	● Brilliant Yellow	570	80	300	-	2.1	2.8	3.1	20	20
A23B5UR5-ES0A-A3	4.7	● Brilliant White (Green)	524	100	200	-	-	2	2.4	20	40
A23B5V2-ES0A-EC	4.7	● Brilliant Red	623	40	80	-	1.7	2	2.4	20	80
A23B5V2-ES0A-E3	4.7	● Brilliant White (Green)	524	100	200	-	1.7	2	2.4	20	20



UNIT: mm

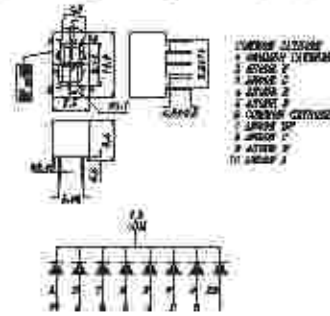


Product	Dimension (mm)	Color		I_v			V_f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / DQE	I_v (mcd) min.	I_v (mcd) typ.	I_v (mcd) max.	V_f (V) min.	V_f (V) typ.	V_f (V) max.		
A23B5UR5V0M50E-A6	5	● Blue	470	1000	1000	-	2.1	3.1	3.7	20	60
A23B5V0-ES0A-E3	5	● Brilliant Yellow Green	553	40	80	-	1.4	2.0	2.4	20	40

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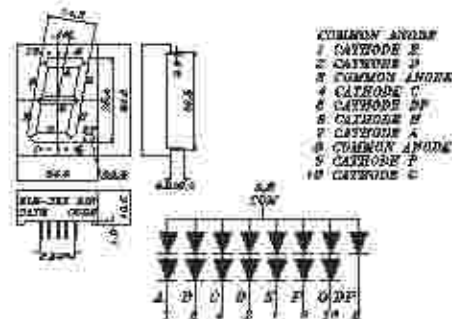
UNIT: mm



Product	Dimension (mm)		Color				CQ/CA	L	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I_f (mcd) min	I_f (mcd) typ
S1155URWAW530-A3	5.14 (0.2")	4.8	● Brilliant Red	624	White	Gray	CC	8.0	8.0
S1245YDWA530-E2	5.14 (0.2")	4.8	● Brilliant Yellow Green	573	White	Gray	CC	8.0	8.0



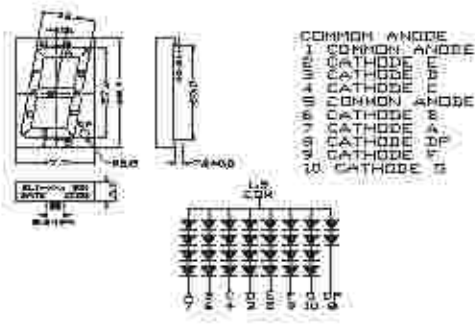
UNIT: mm



Product	Dimension (mm)		Color				CQ/CA	L	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I_f (mcd) min	I_f (mcd) typ
S1005URWAW530-A3	25.4 (1")	14	● Brilliant Red	624	White	Gray	CA	10.0	24.0
S1005YDWA530-E2	25.4 (1")	14	● Brilliant Yellow Green	573	White	Gray	CA	10.0	12.0
S1005URWAW530-A3	25.4 (1")	14	● Brilliant Red	624	White	Gray	CA	11.0	24.0



UNIT: mm



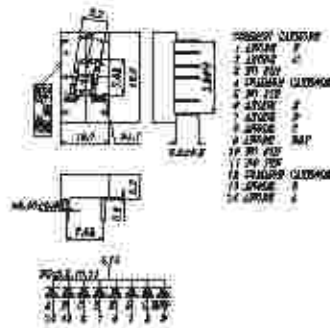
Product	Dimension (mm)		Color				CQ/CA	L	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I_f (mcd) min	I_f (mcd) typ
S1225URWAW530-A3	5.7 (2")	32.4	● Brilliant Red	624	White	Gray	CA	10.0	34.0
S1225YDWA530-E2	5.7 (2")	32.4	● Brilliant Orange	610	White	Gray	CA	30.0	97.0
S1225YDWA530-E2	5.7 (2")	32.4	● Brilliant Yellow Green	573	White	Gray	CA	8.0	12.0
S1225URWAW530-A3	5.7 (2")	32.4	● Blue	460	White	Gray	CA	10.0	34.0

LED Digital Displays

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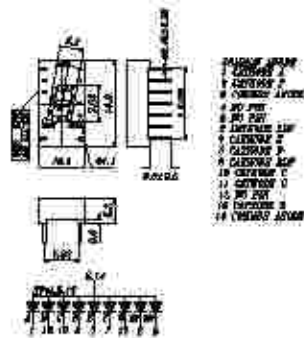
UNIT : mm



Product	Dimension (mm)		Color				CD/CA	L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mod) mm	L _v (mod) typ
S0116URWA/S016-A3	7.62 (0.3)	5.2	● Brilliant Red	624	White	Gray	OK	5.8	11
S0116URWA/S016-A4	7.62 (0.3)	5.2	◆ Brilliant Orange	615	White	Gray	OK	7.9	12.5



UNIT : mm

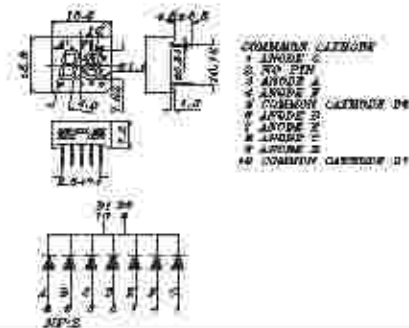


Product	Dimension (mm)		Color				CD/CA	L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mod) mm	L _v (mod) typ
S0226URWA/S026-A3	7.62 (0.3)	5.2	● Brilliant Red	624	White	Gray	OK	5.8	11.0
S0226URWA/S026-A2	7.62 (0.3)	5.2	● Brilliant Yellow Green	575	White	Gray	OK	7.0	14.5

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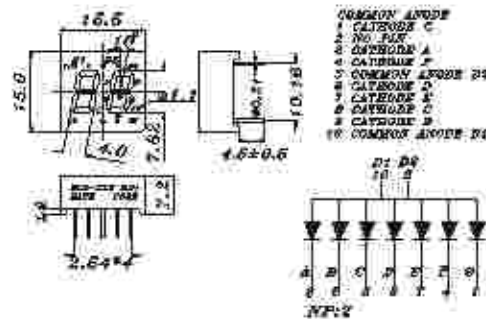
UNIT: mm



Product	Dimension (mm)		Color				CCCA	L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mcd) min	L _v (mcd) typ.
D309L1RW45C30-A3	7.5(0.3)	4	● Bright Red	624	White	Gray	CC	4.0	8.4
D309L1RW45C31-A3	7.5(0.3)	4	● Bright Yellow Green	573	White	Gray	CC	1.0	1.0
D309L1RW45C32-A3	7.5(0.3)	4	● Deep Red	635	White	Black	CC	2.0	4.0



UNIT: mm



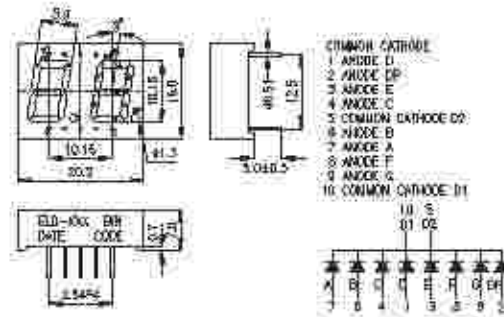
Product	Dimension (mm)		Color				CCCA	L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mcd) min	L _v (mcd) typ.
D309L1RW45C30-A3	7.5(0.3)	4	● Bright Red	624	White	Gray	CA	2.0	6.4
D309L1RW45C31-A3	7.5(0.3)	4	● Bright Orange	615	White	Gray	CA	2.0	6.0
D309L1RW45C32-A3	7.5(0.3)	4	● Bright Yellow	585	White	Gray	CA	1.4	3.2

LED Digital Displays

LED Digital Displays | Chip On Board Display | Dual Digit Display



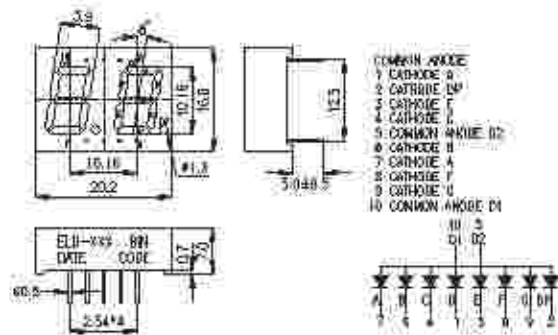
UNIT: mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mcd) min.	L _v (mcd) typ.
D425URWV530-A8	10.15 (0.4")	5.3	● Brilliant Red	625	White	Gray	CA	7.8	10.0
D425URWV530-A8	10.15 (0.4")	5.3	● Reddish Orange	610	White	Gray	CA	0.5	2.0
D425YQWV530-E2	10.15 (0.4")	5.3	● Brilliant Yellow Green	575	White	Gray	CA	2.0	3.3
D425URWV530-A8	10.15 (0.4")	5.3	● Deep Red	625	White	Black	CA	4.0	5.4
D425URWV530-A8	10.15 (0.4")	5.3	● Deep Red	625	White	Gray	CA	4.0	5.5



UNIT: mm

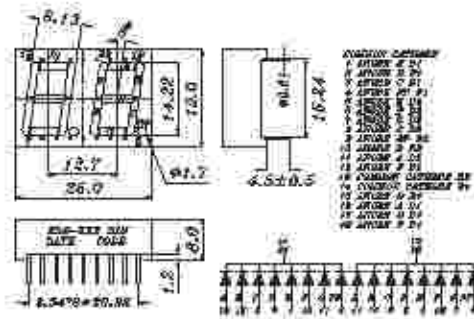


Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mcd) min.	L _v (mcd) typ.
D425URWV530-A8	10.15 (0.4")	5.3	● Brilliant Red	625	White	Black	CA	7.8	10.0
D425URWV530-A8	10.15 (0.4")	5.3	● Reddish Orange	610	White	Gray	CA	11.0	20.0
D425YQWV530-A8	10.15 (0.4")	5.3	● Orange	605	White	Black	CA	5.5	10.0
D425YQWV530-E2	10.15 (0.4")	5.3	● Brilliant Yellow Green	575	White	Gray	CA	2.0	3.0
D425URWV530-A8	10.15 (0.4")	5.3	● Brilliant Red	625	White	Black	CA	3.8	10.0
D425YQWV530-A8	10.15 (0.4")	5.3	● Orange	605	White	Black	CA	2.5	12.0
D425YQWV530-E2	10.15 (0.4")	5.3	● Brilliant Yellow Green	575	White	Gray	CA	3.0	5.2

LED Digital Displays | Chip On Board Display | Dual Digit Display



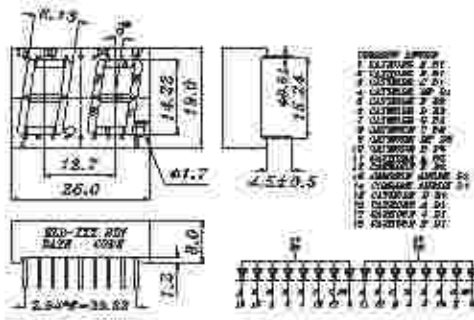
UNIT: mm



Product	Dimension (mm)		Color					CC/CA	I _v		
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color	I _v (mcd) min		I _v (mcd) typ	I _v (mcd) max	
D5113LWWR530-A1	14.22 (0.56")	8.13	● Brilliant Red	624	White	Black	CA	7.8	15.0	-	
D5113LWWR530-E2	14.22 (0.56")	8.13	● Brilliant Yellow Green	572	White	Black	CA	2.8	5.4	-	
D5113LWWR557DAS-105	14.22 (0.56")	8.13	○ Pure White	X=0.28 Y=0.247	White	Gray	CC	100.0	-	125.0	
D5113LWWR510	14.22 (0.56")	8.13	● Blue	470	White	Black	CA	4.0	8.1	-	
D5113LWWR530-A4	14.22 (0.56")	8.13	● Reddish Orange	615	White	Gray	CC	7.8	15.0	-	
D5113LWWR530-E2	14.22 (0.56")	8.13	● Deep Red	630	White	Black	CA	4.0	8.0	-	
D5113LWWR530-E2	14.22 (0.56")	8.13	● Brilliant Yellow Green	573	White	Black	CA	2.8	5.4	-	



UNIT: mm



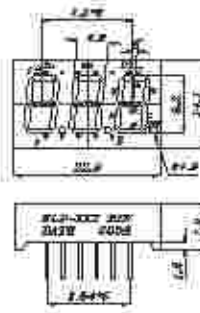
Product	Dimension (mm)		Color					CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color	I _v (mcd) min		I _v (mcd) typ	
D5125LWWR530-A3	14.22 (0.56")	8.13	● Brilliant Red	624	White	Black	CA	7.8	15.0	
D5125LWWR530-E2	14.22 (0.56")	8.13	● Brilliant Yellow Green	572	White	Black	CA	2.8	5.4	
D5125LWWR530-E2	14.22 (0.56")	8.13	● Deep Red	630	White	Black	CA	4.0	8.0	

LED Digital Displays

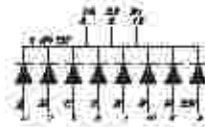
LED Digital Displays | Chip On Board Display | Three Digit Display



UNIT: mm



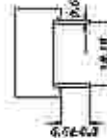
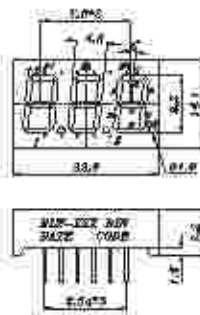
- COMMON CATHODE
- 1 ANODE A
 - 2 ANODE B
 - 3 ANODE DP
 - 4 ANODE C
 - 5 ANODE D
 - 6 DP
 - 7 CATHODE B
 - 8 COMMON CATHODE ANODE
 - 9 COMMON CATHODE ANODE
 - 10 ANODE F
 - 11 ANODE E
 - 12 COMMON CATHODE ANODE



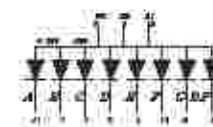
Product	Dimension (mm)		Color	Color			CC/CA	L	
	Segment Height (mm) (inch)	Segment Width (mm) (inch)		Wavelength (nm) / (nm)	Resin Color	Face Color		I _v (mcd) min	I _v (mcd) typ
T3151YRWVSS30-E7	5.2 (0.21)	4.8	Emerald Yellow Green	577	White	Gray	CC	1.4	3.7
T3152C RWVSS30-A3	5.2 (0.21)	4.8	Bluish Red	624	White	Gray	CC	3.5	10.5
T3151YRWVSS30-A3	5.2 (0.21)	4.8	Orange	625	White	Gray	CC	4.5	9.9
T3152YRWVSS30-A1	5.2 (0.21)	4.8	Bluish Yellow	585	White	Gray	CC	2.8	1.5
T3152C RWVSS30-A3	5.2 (0.21)	4.8	Deep Red	623	White	Gray	CC	4.5	5.4



UNIT: mm



- COMMON ANODE
- 1 CATHODE B
 - 2 CATHODE D
 - 3 CATHODE DP
 - 4 CATHODE C
 - 5 CATHODE A
 - 6 DP
 - 7 CATHODE B
 - 8 COMMON ANODE ANODE
 - 9 COMMON ANODE ANODE
 - 10 CATHODE F
 - 11 CATHODE E
 - 12 COMMON ANODE ANODE



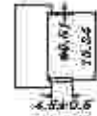
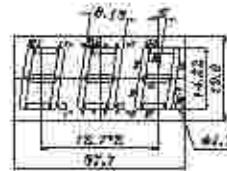
Product	Dimension (mm)		Color	Color			CC/CA	L	
	Segment Height (mm) (inch)	Segment Width (mm) (inch)		Wavelength (nm) / (nm)	Resin Color	Face Color		I _v (mcd) min	I _v (mcd) typ
T3181U RWVSS30-A3	5.2 (0.21)	4.8	Bluish Red	624	White	Gray	CA	3.5	9.9
T3181Y RWVSS30-E2	5.2 (0.21)	4.8	Emerald Yellow Green	577	White	Gray	CA	1.4	3.7
T3181C RWVSS30-A3	5.2 (0.21)	4.8	Deep Red	623	White	Gray	CA	4.0	5.4

LED Digital Displays

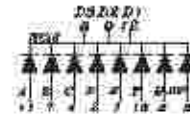
LED Digital Displays | Chip On Board Display | Three Digit Display



UNIT: mm



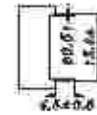
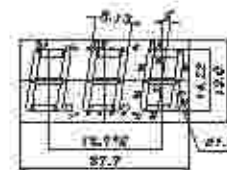
- COMMON CATHODE
- 1 ANODE A
 - 2 ANODE B
 - 3 ANODE C
 - 4 ANODE D
 - 5 ANODE E
 - 6 NO CONNECTION
 - 7 ANODE F
 - 8 COMMON CATHODE DE
 - 9 COMMON CATHODE DE
 - 10 ANODE F
 - 11 ANODE A
 - 12 COMMON CATHODE DE



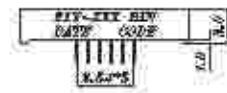
Product	Dimension (mm)		Color				CC/CA	L ₁ (mod) mm	L ₂ (mod) typ.
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color			
T5161RWA6530-A3	14.22 (0.56)	8.13	● Brilliant Red	624	White	Gray	CC	7.6	17.6
T5161BWA6530-E2	14.22 (0.56)	8.13	● Brilliant yellow Green	573	White	Gray	CC	2.9	6.5
T5161GWA6530-A3	14.22 (0.56)	8.13	● Brilliant Green	525	White	Black	CC	30.0	67.0
T5161CWA6530-A3	14.22 (0.56)	8.13	● Orange	605	White	Gray	CC	5.4	12.5
T5161DWA6530-A3	14.22 (0.56)	8.13	● Deep Red	639	White	Gray	CC	5.5	12.5



UNIT: mm



- COMMON ANODE
- 1 CATHODE F
 - 2 CATHODE B
 - 3 CATHODE D
 - 4 CATHODE C
 - 5 CATHODE E
 - 6 NO CONNECTION
 - 7 CATHODE F
 - 8 COMMON ANODE DE
 - 9 COMMON ANODE DE
 - 10 CATHODE F
 - 11 CATHODE A
 - 12 COMMON ANODE DE

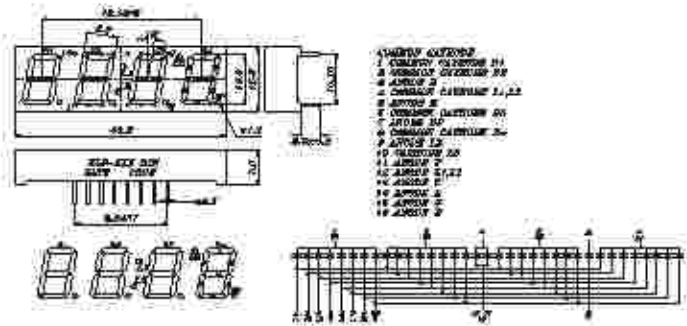


Product	Dimension (mm)		Color				CC/CA	L ₁ (mod) mm	L ₂ (mod) typ.
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color			
T5125VWA6530-E2	14.22 (0.56)	8.13	● Brilliant yellow Green	573	White	Gray	CA	2.9	6.5
T5125BWA6530-A3	14.22 (0.56)	8.13	● Brilliant Red	624	White	Gray	CA	7.6	17.6
T5125CWA6530-A3	14.22 (0.56)	8.13	● Orange	605	White	Gray	CA	5.5	12.5
T5125EWA6530-A3	14.22 (0.56)	8.13	● Hybrid Orange	615	White	Gray	CA	7.8	17.6
T5125DWA6530-A3	14.22 (0.56)	8.13	● Blue	470	White	Gray	CA	11.0	24.0
T5125FWA6530-A3	14.22 (0.56)	8.13	● Deep Red	639	White	Black	CA	5.5	12.5
T5125GWA6530-A3	14.22 (0.56)	8.13	● Brilliant Red	624	White	Black	CA	7.6	17.6
T5125HWA6530-E2	14.22 (0.56)	8.13	● Brilliant yellow Green	573	White	Black	CA	2.9	6.5

LED Digital Displays | Chip On Board Display | Four Digit Display



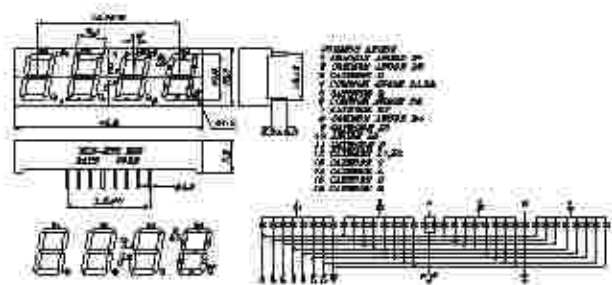
UNIT : mm



Product	Dimension (mm)		Color				COP CA	λ	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / GIE	Beam Color	Face Color		L _v (mcd) min	L _v (mcd) typ
FL1504RVA5530-A7	7.6(0.4)	E	● Brilliant Red	627	White	Grey	CA	5.5	8.3
FL1504RMBN5530-A2	8.0(0.4)	E	● Brilliant Red	627	White	Black	CA	5.0	8.0
FL1504GYM5530-A6S71E	10.0(0.4)	E	● Orange	627	White	Black	CA	7.8	11.0



UNIT : mm



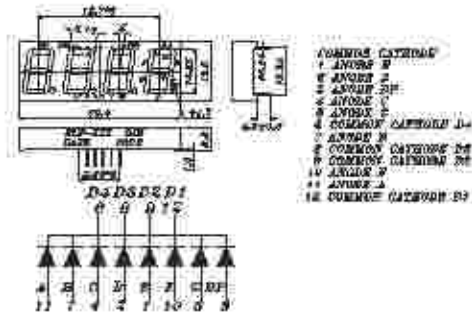
Product	Dimension (mm)		Color				COP CA	λ	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / GIE	Beam Color	Face Color		L _v (mcd) min	L _v (mcd) typ
FL1504GVA5530-E7	10.0(0.4)	E	● Brilliant Yellow Green	527	White	Grey	CA	4.5	8.3
FL1504RMBN5530-A2	10.0(0.4)	E	● Brilliant Red	627	White	Black	CA	5.0	8.0
FL1504RVA5530-A7	10.0(0.4)	E	● Dark Red	627	White	Grey	CA	5.5	8.3
FL1504W5530-A6S71E	10.0(0.4)	E	● Brilliant Yellow	527	White	Black	CA	5.0	10.0
FL1504RVA5530-A7	8.0(0.4)	E	● Brilliant Red	627	White	Grey	CA	5.5	12.5

LED Digital Displays

LED Digital Displays | Chip On Board Display | Four Digit Display



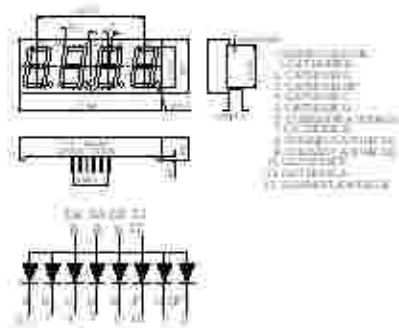
UNIT: mm



Product	Dimension (mm)		Color				CO/CA	L	
	Segment Height (mm) (inch)	Segment Width (mm) (inch)	Color	Wavelength (nm) (nm)	Resin Color	Face Color		L ₁ (mm) (mm)	L ₂ (mm) (mm)
F5115URWA800-A1	14.22 (0.56")	8.13	● Brilliant Red	620	White	Gray	CA	7.8	15.0
F5115URWA800-A2	14.22 (0.56")	8.13	● Brilliant Yellow Green	525	White	Gray	CA	7.8	15.0
F5115URWA800-A3	14.22 (0.56")	8.13	● Deep Red	630	White	Black	CA	7.8	15.0
F5115URWA800-A4	14.22 (0.56")	8.13	● Brilliant Red	620	White	Black	CA	7.8	15.0

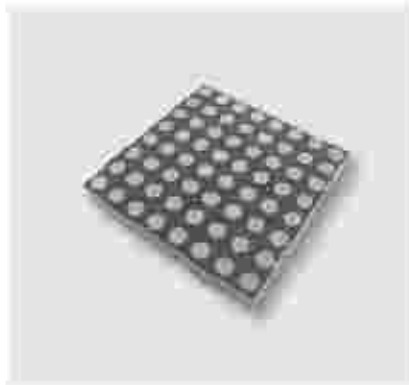


UNIT: mm

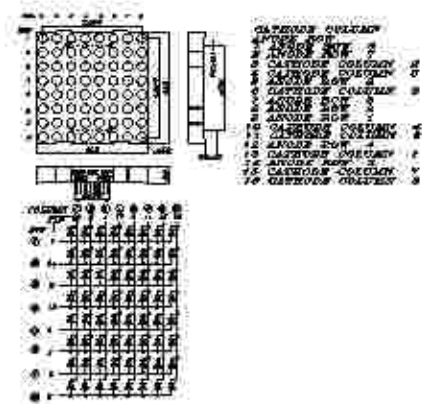


Product	Dimension (mm)		Color				CO/CA	L	
	Segment Height (mm) (inch)	Segment Width (mm) (inch)	Color	Wavelength (nm) (nm)	Resin Color	Face Color		L ₁ (mm) (mm)	L ₂ (mm) (mm)
F5123URWA800-A1	14.22 (0.56")	8.13	● Brilliant Red	620	White	Gray	CA	7.8	15.0
F5123URWA800-A2	14.22 (0.56")	8.13	● Brilliant Yellow Green	525	White	Gray	CA	7.8	15.0
F5123URWA800-A3	14.22 (0.56")	8.13	● Deep Red	630	White	Black	CA	7.8	15.0
F5123URWA800-A4	14.22 (0.56")	8.13	● Blue	470	White	Black	CA	7.8	15.0

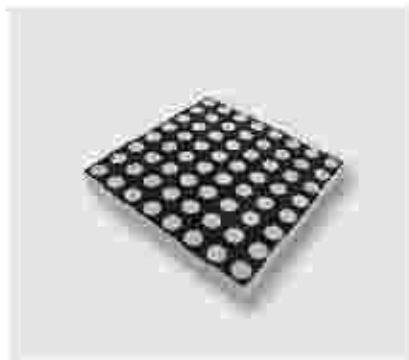
LED Digital Displays | Chip On-Board Display | Dot Matrix Display



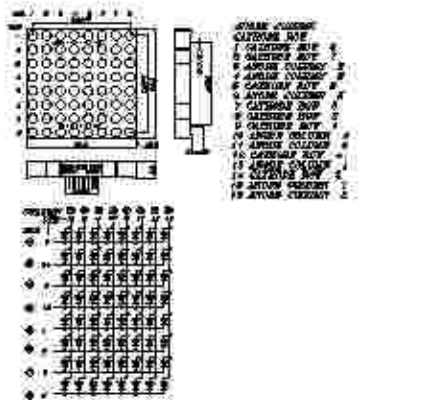
UNIT: mm



Product	Size (LxWxH)	Color				CDDA	L	
		Color	Wavelength (nm) / CIE	Resin Color	Face Color		L (mcd) /mm	L (mcd) /pin
M2B15K7WWS020-A3	10.0x10.0x2.0	SHINE Red	624	White	Gray	CC	7.8	21.0
M2B15K7WWS004E	10.0x10.0x2.0	SHINE Yellow/Orange	573	White	Gray	CC	7.8	17.8
M2B15K7WWS004F	10.0x10.0x2.0	SHINE Yellow	588	White	Gray	CC	11.5	17.6



UNIT: mm



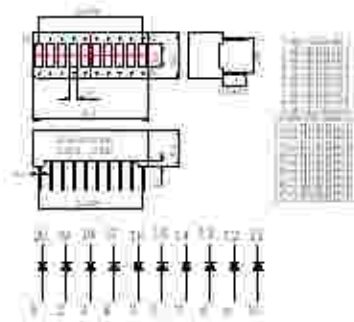
Product	Size (LxWxH)	Color				CDDA	L	
		Color	Wavelength (nm) / CIE	Resin Color	Face Color		L (mcd) /mm	L (mcd) /pin
M2B15K7WWS004E	10.0x10.0x2.0	SHINE Yellow/Green	573	White	Gray	CA	7.8	17.6

LED Digital Displays

LED Digital Displays | Chip On Board Display | Light Bar Display



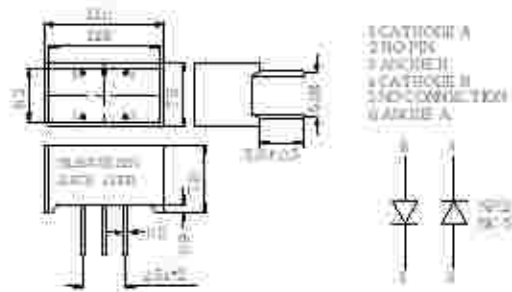
UNIT: mm



Product	Size (LxW/mm)	Color				CCPA	I _v	
		Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
B10010R/VA1030-A3	22.5x7.5	● Deep Red	625	White	Black	CC	4.0	8.0
B10010R/VA1030-A3	22.5x7.5	● Bright Red	624	White	Black	CC	5.0	12.0
B10010R/VA1030-A4	22.5x7.5	● Reddish Orange	610	White	Gray	CC	2.0	17.0
B10010R/VA1030-E3	22.5x7.5	● Bright Yellow Green	570	White	Gray	CC	2.0	4.5
B10010R/VA1030	22.5x7.5	● Blue	470	White	Gray	CC	4.0	8.0
B10010R/VA1030-A2	22.5x7.5	● Super Yellow	580	White	Gray	CC	7.0	12.5



UNIT: mm

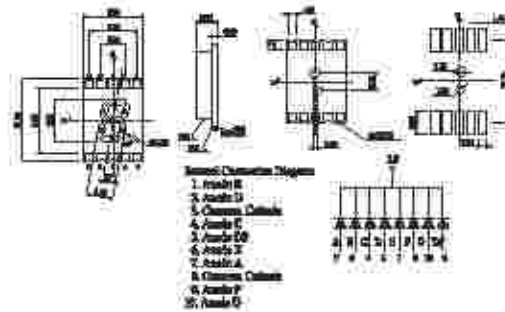


Product	Size (LxW/mm)	Color				CCPA	I _v	
		Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
B11105URD/5330-A3	14.0x7.5	● Bright Red	624	Red	White	CA	11.0	24.0
B11105URD/5330-E3	14.0x7.5	● Bright Yellow Green	570	Green	White	CA	2.0	5.4
B11105URD/5330-A2	14.0x7.5	● Bright Yellow	580	Yellow	White	CA	10.0	24.0

LED Digital Displays | SMD Display | Single Digit Display



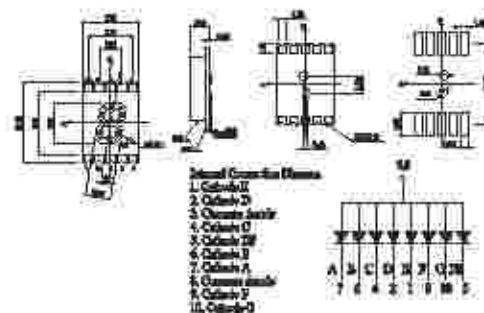
UNIT: mm



Product	Dimension (mm)		Color				COR CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Brilliant Red	624	White	Grey	CA	7.5	12.5
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Brilliant Orange	622	White	Grey	CA	7.5	17.5
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Brilliant Yellow	580	White	Grey	CA	7.5	17.5
SS20ESURWA/SS20-ESR280	5.08 (0.2")	3.2	● Brilliant Yellow Green	573	White	Grey	CA	4.5	8.5
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Blue	470	White	Grey	CA	7.5	17.5



UNIT: mm



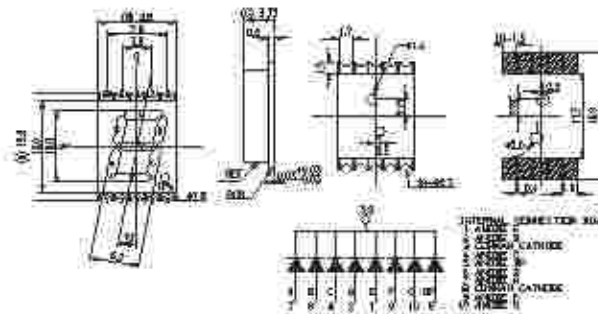
Product	Dimension (mm)		Color				COR CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Brilliant Red	624	White	Grey	CA	7.5	12.5
SS20ESURWA/SS20-ESR280	5.08 (0.2")	3.2	● Brilliant Yellow Green	573	White	Grey	CA	4.5	8.5
SS20ESURWA/SS20-ASR280	5.08 (0.2")	3.2	● Dark Red	621	White	Grey	CA	4.5	8.5

LED Digital Displays

LED Digital Displays | SMD Display | Single Digit Display



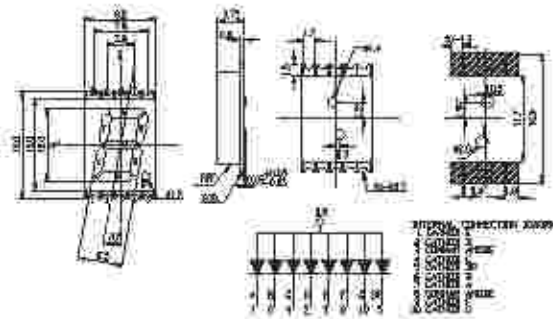
UNIT: mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (med) min	I _v (med) typ
SS10ESUR1W5500-A31E2H0	10 (0.4")	6.2	● Brilliant Red	624	White	Gray	CA	7.8	17.5
SS10M1V2204-0210E	10 (0.4")	6.2	● Brilliant Yellow Green	523	White	Gray	CA	5.8	12.5



UNIT: mm

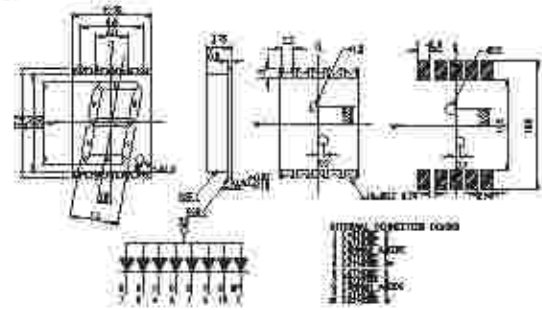


Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (med) min	I _v (med) typ
SS10ESUR1W5500-A31E2H0	10 (0.4")	6.2	● Brilliant Red	624	White	Gray	CA	7.8	17.5
SS10M1V2204-0210E	10 (0.4")	6.2	● Brilliant Yellow Green	523	White	Gray	CA	5.8	12.5
SS10ESUR1W5500-A31E2H0	10 (0.4")	6.2	● Blue	470	White	Gray	CA	15.0	40.5
SS10M1V2204-0210E	10 (0.4")	6.2	● Brilliant Red	624	White	Gray	CA	5.8	12.5
SS10ESUR1W5500-A31E2H0	10 (0.4")	6.2	□ Pure White	X=0.2700,110 Y=0.2226,913	White	Gray	CA	20.0	57.0
SS10M1V2204-0210E	10 (0.4")	6.2	● Brilliant Yellow	588	White	Gray	CA	15.0	34.0

LED Digital Displays | SMD Display | Single Digit Display



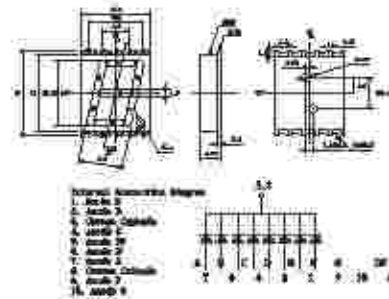
UNIT: mm



Product	Dimension (mm)		Color					L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color	CO/CA	L _v (mcd) min.	L _v (mcd) typ.
ES0061V0W4A530-82	1.2 (0.5)	7.4	● Brilliant Yellow Green	573	White	Gray	CA	5.5	8.1
ES0061U0W4A530-82R20	1.2 (0.5)	7.4	● Brilliant Red	621	White	Gray	CA	7.5	15.1
ES0061U0W4A530-820	1.2 (0.5)	7.4	● Blue/White	X=0.2750-0.10 Y=0.5500-0.07	White	Gray	CA	30.0	58.5



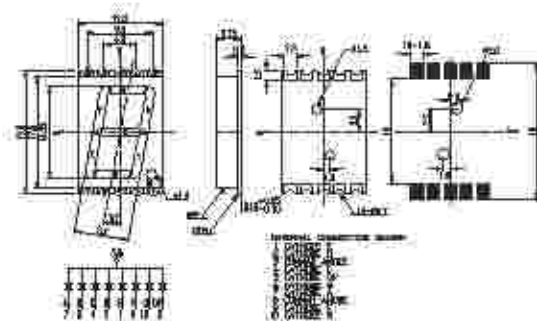
UNIT: mm



Product	Dimension (mm)		Color					L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color	CO/CA	L _v (mcd) min.	L _v (mcd) typ.
ES0130U0W4A530-82R20	1.4 (0.5)	8.1	● Hyper Red	624	White	Gray	CC	15.0	34
ES0130V0W4A530-82R20	1.4 (0.5)	8.1	● Brilliant Yellow Green	573	White	Gray	CC	14.0	33
ES0130U0W4A530	1.4 (0.5)	8.1	● Blue	471	White	Gray	CC	11.0	26.0



UNIT: mm



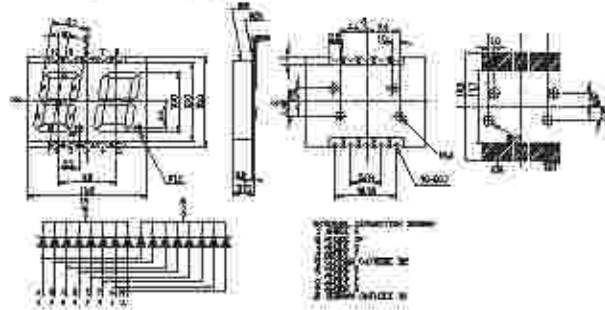
Product	Dimension (mm)		Color					L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color	CO/CA	L _v (mcd) min.	L _v (mcd) typ.
ES0130U0W4A530-82R20	1.4 (0.5)	8.1	● Brilliant Red	624	White	Gray	CA	11.5	26
ES0130V0W4A530-82	1.4 (0.5)	8.1	● Brilliant Yellow Green	572	White	Gray	CA	12	28

LED Digital Displays

LED Digital Displays | SMD Display | Dual Digit Display



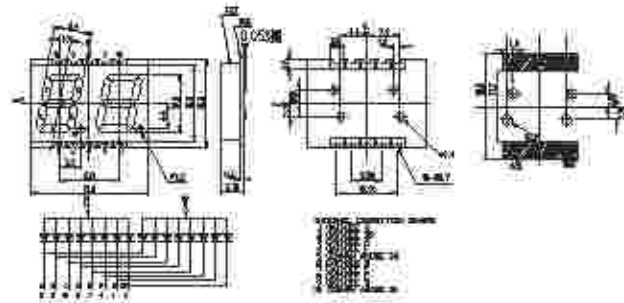
UNIT: mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
SDH88URVA-0333-A3528	11 (0.43)	6.2	● Brilliant Red	635	White	Gray	CC	7.8	17.5
SDH88YGVWAS330-E2	11 (0.43)	6.2	● Brilliant Yellow Green	575	White	Gray	CC	8.3	12.8
SDH88URVBS033-A3534	11 (0.43)	6.2	● Deep Red	635	White	Dark	CC	7.8	17.5



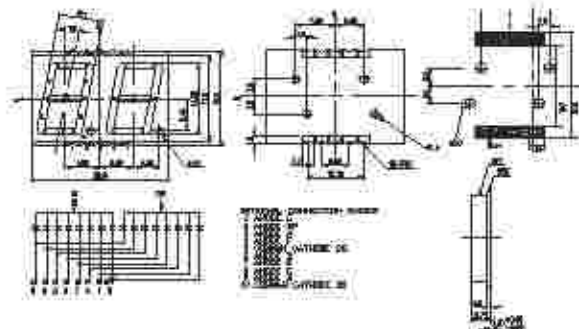
UNIT: mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
SDH88URVWAS330-A4520	11 (0.43)	6.2	● Brilliant Red	635	White	Gray	CA	7.8	17.6
SDH88YGVWAS330-EM28	11 (0.43)	6.2	● Brilliant Yellow Green	575	White	Gray	CA	8.4	13.0
SDH88WWAS290	11 (0.43)	6.2	○ Blue White	X=0.2700-0.10 Y=0.2226-0.03	White	Gray	CA	31.0	67.0



UNIT: mm

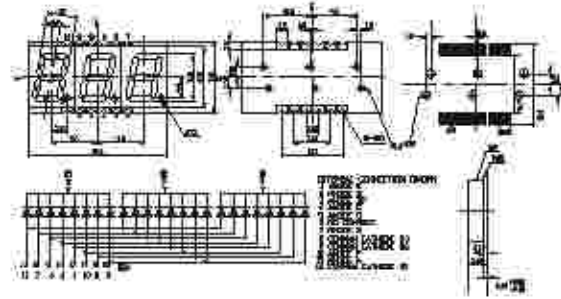


Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		I _v (mcd) min.	I _v (mcd) typ.
SDH888YGVWAS330-E2/528	11 (0.43)	6.2	● Brilliant Yellow Green	575	White	Gray	CC	8.3	12.8

LED Digital Displays | SMD Display | Three Digit Display



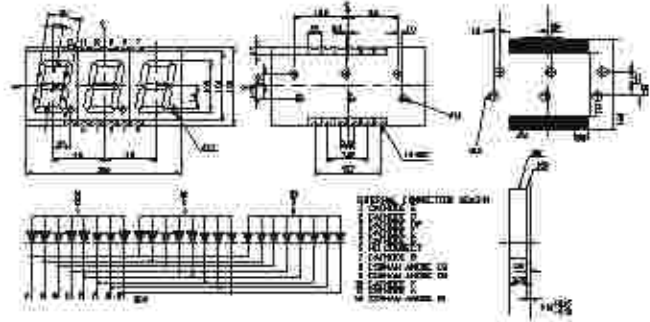
UNIT : mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L (mcd) min.	L (mcd) typ.
ET1053YDWA42530-E2	12 (0.47)	6.2	● Brilliant Yellow Green	575	White	Gray	CA	8.0	8.0
ET1053YDWA5030-A4S2B0	12 (0.47)	6.2	● Brilliant Orange	600	White	Gray	CA	15.0	15.0
ET1053YDWA5030-A4S2B0	12 (0.47)	6.2	● Brilliant Green	525	White	Gray	CA	21.0	21.0



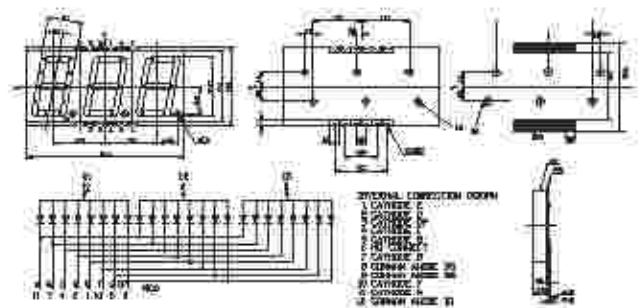
UNIT : mm



Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L (mcd) min.	L (mcd) typ.
ET1063URWA5030-A3S2B0	10 (0.39)	6.2	● Brilliant Red	620	White	Gray	CA	7.5	11.4
ET1063YDWA5030-E2	10 (0.39)	6.2	● Brilliant Yellow Green	575	White	Gray	CA	10	9.9



UNIT : mm

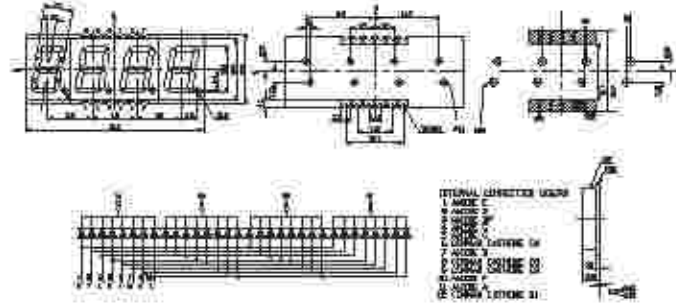


Product	Dimension (mm)		Color				CC/CA	I _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L (mcd) min.	L (mcd) typ.
ET1125URWA5030-A3S2B0	14.2 (0.56)	6.1	● Brilliant Red	620	White	Gray	CA	7.5	11.4
ET1125YDWA5030-E2A2B0	14.2 (0.56)	6.1	● Brilliant Yellow Green	575	White	Gray	CA	7.5	11.4
ET1125URWA04T0S2B0	14.2 (0.56)	6.1	● Blue	470	White	Gray	CA	15.0	15.2

LED Digital Displays | SMD Display | Four Digit Display



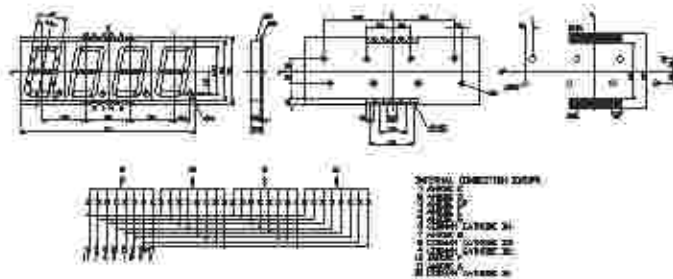
UNIT : mm



Product	Dimension (mm)		Color				CO/CA	L _v	
	Segment Height mm (inch)	Segment Width mm (inch)	Color	Wavelength (nm) / CIE	Resin Color	Face Color		L _v (mm) min.	L _v (mm) typ.
SPS113URWA/ES30-A3A/CE0	12.2 (0.48)	5.2	● Bright Red	624	White	Gray	CA	7.8	17.5
SPS113URWA/ES30-B3B/CE0	10.1 (0.4)	5.2	● Bright Orange	605	White	Gray	CA	11.8	34.0



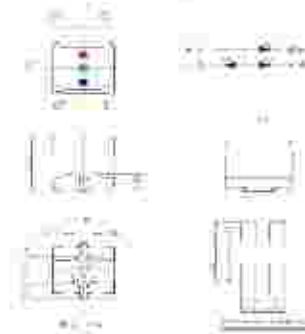
UNIT : mm



Signage LED | Surface Mount PLCC LED (Reflector) | Top View PLCC4



UNIT : mm

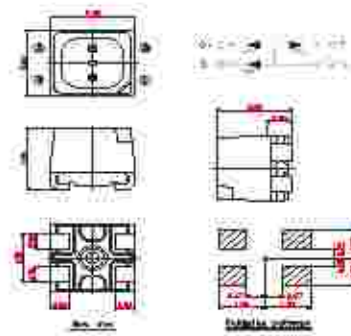


Product	Size (LxWxH:mm)	Color		L _v		V _f		IF(mA)	View Angle(°)
		Color	Wavelength nm / CIE	L _v (min)	L _v (max)	V _f (V) min.	V _f (V) max.		
HM1812W-0100	1.65 x 1.5 x 1.65	Red	615-625	340	540	1.8	2.5	10	110
		Green	515-525	500	740	2.0	3.0	5	110
		Blue	460-470	70	430	2.5	3.5	5	110

• Product Availability: Please visit EVERLIGHT website for more updated information | www.everlight.com | or contact EVERLIGHT sales for regional options.



UNIT : mm

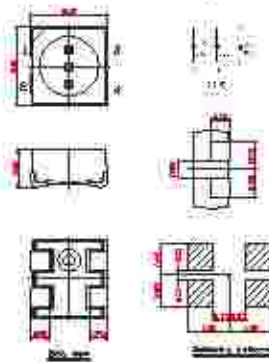


Product	Size (LxWxH:mm)	Color		L _v		V _f		IF(mA)	View Angle(°)
		Color	Wavelength nm / CIE	L _v (min)	L _v (max)	V _f (V) min.	V _f (V) max.		
HM1812W-0203	2.15 x 2.65 x 1.9	Red	615-625	400	675	1.8	2.9	10	110
		Green	515-525	500	730	2.5	3.5	5	110
		Blue	460-470	90	340	2.5	3.5	5	110

Signage LED | Surface Mount PLCC LED (Reflector) | Top View PLCC4



UNIT: mm

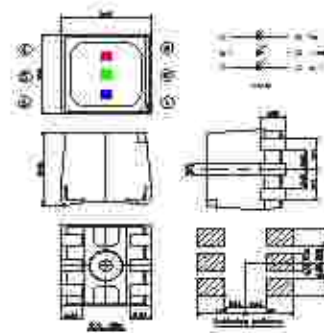


Product	Size (LxWxH)(mm)	Color		I _v		V _f		IF(mA)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) max.	V _f (V) min.	V _f (V) max.	
HL8232(WG-80)	2.1x2.1x1.0	Red	615-630	155	400	1.8	2.5	15
		Green	515-535	125	300	2.5	3.2	8
		Blue	465-480	35	75	2.5	3.2	5

Signage LED | Surface Mount PLCC LED (Reflector) | Top View PLCC5



UNIT: mm

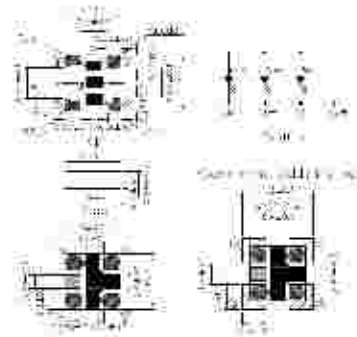


Product	Size (LxWxH)(mm)	Color		I _v		V _f		IF(mA)	View Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min.	I _v (mcd) max.	V _f (V) min.	V _f (V) max.		
HL8232(W/O80)H-PM10	2.8x2.7x1.2	White Red	615-630	300	800	1.8	2.5	75	110
		White Green	515-535	300	800	2.5	3.2	8	110
		Blue	465-480	85	190	2.5	3.2	8	110

Signage LED | Surface Mount PLGG LED (Reflector) | Top View Full Color



UNIT : mm



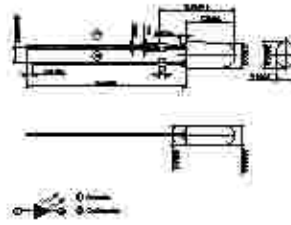
Product	Size (LxWxH)mm	Color		I _v			V _f			I _f (mA)
		Color	Wavelength nm / DE	I _v (mcd) min	I _v (mcd) typ	I _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max	
18-03BET50DGRSS1FM032BT	1.0x1.0x0.85	Red	615-625	30	-	30	1.6	-	2.4	3
	1.0x1.0x0.85	Green	520-540	20	-	20	2.3	-	2.6	2
	1.0x1.0x0.85	Blue	460-480	2.6	-	3.0	2.3	-	2.4	2
18-03BET50DGRSS1FM04BT	1.0x1.0x0.85	Red	615-625	20	-	20	2.6	-	2.6	3
	1.0x1.0x0.85	Green	510-530	25	-	25	2.4	-	2.6	2
	1.0x1.0x0.85	Blue	460-470	3	-	3	2.5	-	2.6	2
18-03BET50DGRSS1FM04BT	1.0x1.0x0.85	Red	615-625	20	-	20	1.8	-	2.4	3
	1.0x1.0x0.85	Green	520-540	20	-	20	2.4	-	2.6	2
	1.0x1.0x0.85	Blue	460-480	4	-	5	2.5	-	2.6	2

Signage LED | 3mm Oval Type

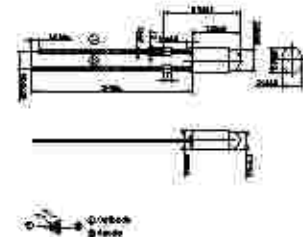


UNIT : mm

3474BAGR
3474BAER



3474BARR



Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm / GIE)	λ (nm) min	λ (nm) typ	λ (nm) max	V _f (V) min	V _f (V) typ	V _f (V) max		
3474BARR1MS	3.5x3.7x3	Red	610-620	710	-	810	1.6	-	2.6	15	×110°×80
3474BARR2MS	3.5x3.7x3	Green	520-530	520	-	530	2.4	-	3.4	10	×110°×80
3474BARR3MS	3.5x3.7x3	Blue	460-470	460	-	470	2.4	-	3.4	10	×110°×80

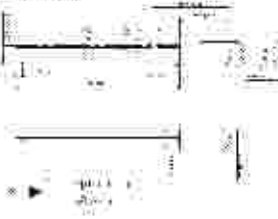


UNIT : mm

3474BPR
3474BPR



3474BPR

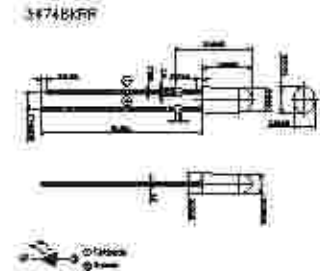
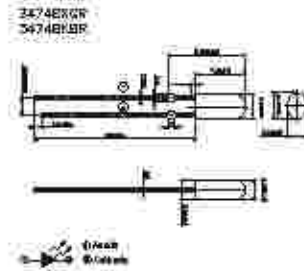


Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength (nm / GIE)	λ (nm) min	λ (nm) typ	λ (nm) max	V _f (V) min	V _f (V) typ	V _f (V) max		
3474BPR1MS	3.5x3.7x3	Red	610-620	720	760	240	1.6	-	2.6	30	×110°×80
3474BPR2MS	3.5x3.7x3	Green	520-530	520	530	540	2.4	-	3.4	30	×110°×80
3474BPR3MS	3.5x3.7x3	Blue	460-470	460	470	480	2.4	-	3.4	30	×110°×80

Signage LED 13mm Oval Type



UNIT : mm

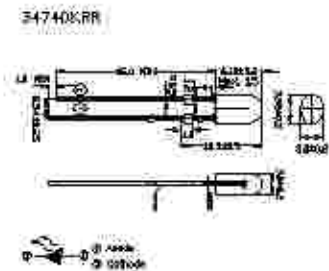
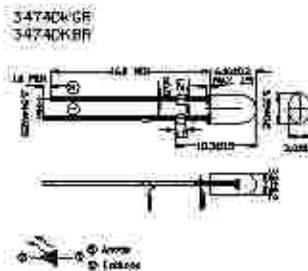


Product	Dimension (mm)	Color		L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / DE	L _v (min) mm	L _v (typ) μm	L _v (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max		
3474BWR/GR/BL	3.3x7.3	Red	610-625	1100	1300	2400	1.6	-	2.5	20	X 110 Y 60
3474BGR/BL	3.3x7.3	Green	520-535	2700	4300	5700	2.4	-	3.4	20	X 110 Y 60
3474BWR/BL	3.3x7.3	Blue	460-475	550	600	1100	2.4	-	3.4	20	X 110 Y 60

• Product Availability: Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.



UNIT : mm



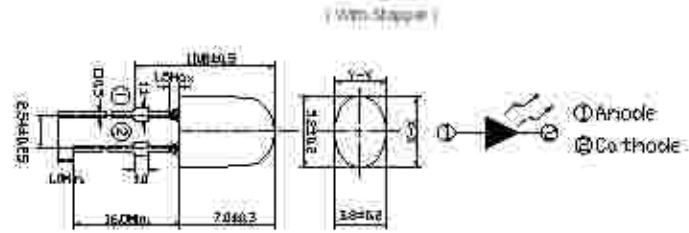
Product	Dimension (mm)	Color		L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / DE	L _v (min) mm	L _v (typ) μm	L _v (max) mm	V _f (V) min	V _f (V) typ	V _f (V) max		
3474DWR/GR/BL	3.3x7.3x1.1	Red	610-625	1475	2100	4600	1.6	-	2.5	20	X 90 Y 45
3474DGR/BL	3.3x7.3x1.1	Green	520-535	3000	5300	7000	2.4	-	3.4	20	X 90 Y 45
3474DWR/BL	3.3x7.3x1.1	Blue	460-475	584	740	2100	2.4	-	3.4	20	X 90 Y 45

• Product Availability: Please visit EVERLIGHT website for more updated information (www.everlight.com) or contact EVERLIGHT sales for regional options.

Signage LED 1.5mm Oval Type



UNIT : mm

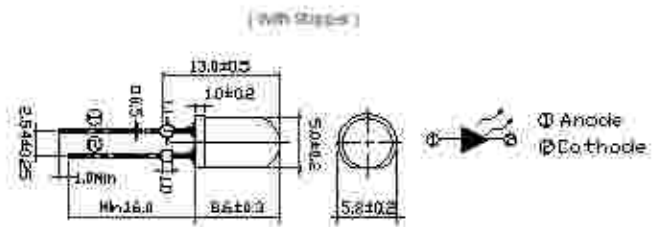


Product	Dimension (mm)	Color			L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ.	I _v (mcd) max	V _f (V) min	V _f (V) typ.	V _f (V) max			
S184BNW1DC-AHBPMS	5.2x3.0x1.7	Red	618-628	1000	-	2000	1.8	-	2.4	20	X:110 Y:40	
S184BNW1DC-AHNPMS	5.2x3.0x1.7	Green	520-530	2000	-	2400	2.4	-	3.5	20	X:110 Y:40	
S184BNW1DC-AHUPMS	5.2x3.0x1.7	Blue	460-470	700	-	1400	2.8	-	3.5	20	X:110 Y:40	

Signage LED 1.5mm Round Type



UNIT : mm

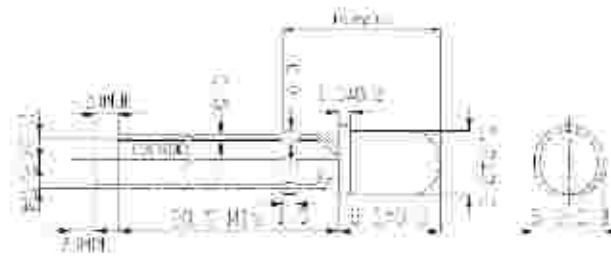


Product	Dimension (mm)	Color			L _v			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	I _v (mcd) min	I _v (mcd) typ.	I _v (mcd) max	V _f (V) min	V _f (V) typ.	V _f (V) max			
S227BC1A16PMS	3.8 x 3 x 1.5	Yellow	590-594	1100	-	1800	1.8	-	2.5	20	15	
S227BC1A16PMS	3.8 x 3 x 1.5	Green	520-530	1800	2000	4000	2.4	3.2	3.5	20	15	
S227BC1A16PMS	3.8 x 3 x 1.5	Blue	460-470	800	1100	1500	2.8	3.2	3.5	20	15	

Signage LED 5mm Round Type



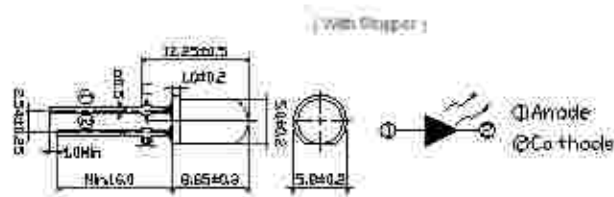
UNIT: mm



Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
7835BUC01R3UEW01R03M5	5	● Bright Red	620-630	1000	-	4000	1.6	2.0	2.4	20	60
	5	● Bright Green	520-530	1000	-	4000	2.4	3.2	3.8	20	60
	5	● Blue	460-475	1000	-	4000	2.8	3.2	3.8	20	60



UNIT: mm



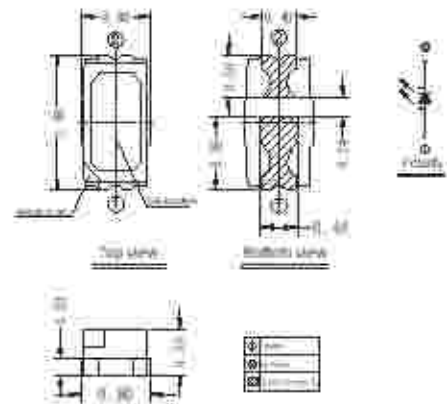
Product	Dimension (mm)	Color		λ			V _f			IF (mA)	Viewing Angle(°)
		Color	Wavelength nm / CIE	L _v (mcd) min	L _v (mcd) typ	L _v (mcd) max	V _f (V) min	V _f (V) typ	V _f (V) max		
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Red	610-630	4000	7100	11200	1.6	2.0	2.5	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Yellow	580-590	4000	7100	11200	1.8	2.0	2.5	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Green	520-530	7100	3000	54200	2.0	-	3.4	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Blue	460-475	2200	2800	4500	2.8	-	3.8	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Super Green	500-510	4000	6300	8000	2.8	-	3.4	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Red	620-630	3600	7100	11200	1.6	2.0	2.5	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Yellow	580-590	3600	9000	14200	1.6	2.0	2.5	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Super Green	500-510	3600	-	14200	2.8	3.2	3.8	20	60
7835BUC01R3UEW01R03M5	5.0 x 5.0 x 5.0	● Green	495-475	9000	-	14200	2.8	3.2	3.8	20	60

Signage LED

Automotive LED | Interior Lighting



UNIT: mm

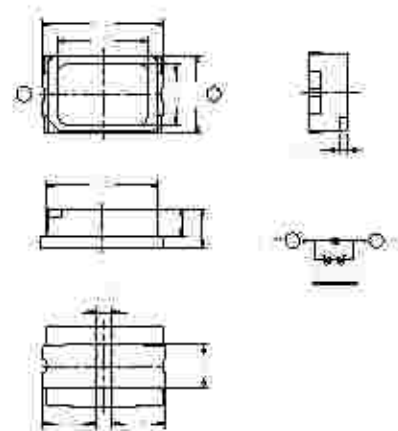


EL 1808

Product	Qty/quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(X,Y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
1808-CT020M-AM	1	1.8x2.6x1.5	White	0.280,0.27	-	570	2.85	10
1808-VX010DM-AM	1	1.8x2.6x1.5	Yellow	-	595	270	2.1	10
1808-UR010DM-AM	1	1.8x2.6x1.5	Red	-	617	250	2.1	10
1808-PR010DM-AM	1	1.8x2.6x1.5	Super Red	-	630	210	2.1	10
1808-UB010DM-AM	1	1.8x2.6x1.5	Blue Blue	-	462	140	2.8	10
1808-UG010DM-AM	1	1.8x2.6x1.5	Green	-	520	700	2.80	10
1808-UB010DM-AM	1	1.8x2.6x1.5	Blue Blue	0.200,0.23	-	650	3.0	10



UNIT: mm



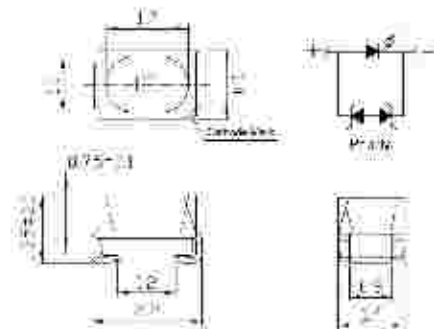
EL 2214

Product	Qty/quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(X,Y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
2214-CT020M-AM	1	2.2x1.8x1.7	White	0.210,0.210	-	1000	2.8	100
2214-CT030M-AM	1	2.2x1.8x1.7	White	0.3,0.28	-	800	3.3	50
2214-PA020M-AM	1	2.2x1.8x1.7	PC-Antibler	0.55,0.43	-	1100	2.8	100

Automotive LED | Interior Lighting



UNIT: mm

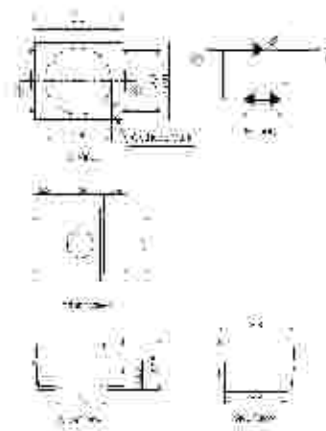


EL Mini Top View

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
65-11-CTV200H-AM	1	2.2x1.4x1.35	White	0.3, 0.3	-	1400	2.9	20
65-11-8B0100L-AM	1	2.2x1.4x1.35	Orange	0.63, 0.20	-	300	2.1	10
65-11-8B0100L-AM	1	2.2x1.4x1.35	Sky Blue	0.15, 0.08	-	300	2.4	10
65-11-UB0200H-AM	1	2.2x1.4x1.35	Blue	-	465	300	2.1	20
65-11-UC0200H-AM	1	2.2x1.4x1.35	Green	-	520	1500	2.4	20
65-21-UR0200H-AM	1	2.2x1.4x1.35	Red	-	620	1100	2	20
65-21-UV0200H-AM	1	2.2x1.4x1.35	Violet	-	380	1000	2	20



UNIT: mm



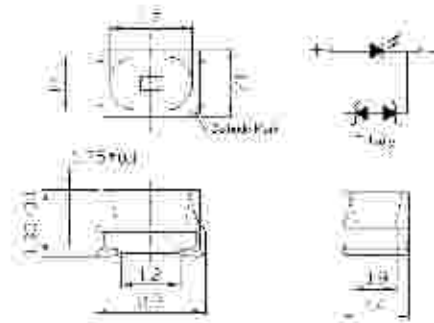
EL Top View

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
67-14-CTV200H-AM	1	3.5x2.8x1.85	White	0.3, 0.3	-	1400	3.4	20
67-14-CTV100H-AM	1	3.5x2.8x1.85	White	0.3, 0.3	-	1400	3.4	10
67-14-8B0100L-AM	1	3.5x2.8x1.85	Orange	0.63, 0.20	-	300	2.1	10
67-14-8B0100L-AM	1	3.5x2.8x1.85	Sky Blue	0.15, 0.08	-	300	2.4	10
67-14-UB0200H-AM	1	3.5x2.8x1.85	Blue	-	465	300	2.1	20
67-14-UC0200H-AM	1	3.5x2.8x1.85	Green	-	520	1500	2.4	20
67-24-UR0200H-AM	1	3.5x2.8x1.85	Red	-	620	1100	2	20
67-24-UV0200H-AM	1	3.5x2.8x1.85	Violet	-	380	1000	2	20

Automotive LED | Interior Lighting



UNIT : mm

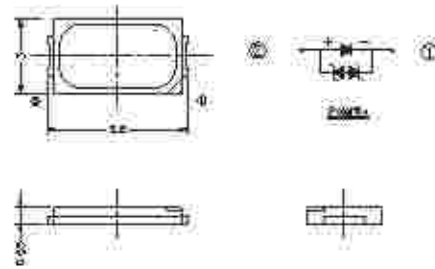


EL Top View 2835

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (lm)	Forward Voltage (V)	Driving current (mA)
ST-V18-28V02H-AM	1	2.8x3.5x0.7	White	0.23/0.34	-	42	2.8	30
ST-V18-28V02H-AM	1	2.8x3.5x0.7	Red	0.67/0.33	-	40	2.7	30
ST-V18-28V02H-AM	1	2.8x3.5x0.7	Blue	0.18/0.22	-	21	3	50



UNIT : mm



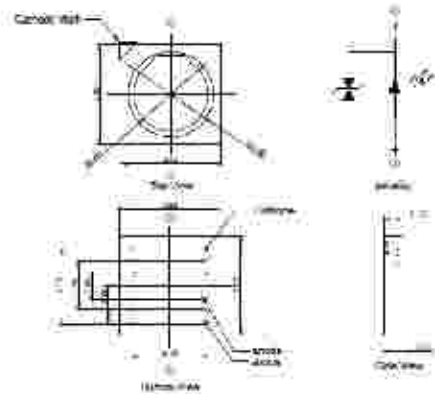
EL Top View 5630

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (lm)	Forward Voltage (V)	Driving current (mA)
ES-117D-010E20H-AM	1	5.5x3.5x0.55	White	0.30/0.34	-	21	3.2	50

Automotive LED | Interior Lighting



UNIT : mm

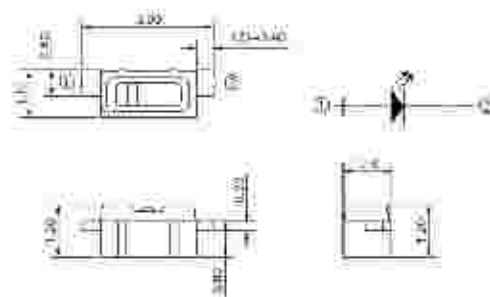


XI3535

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x,y)	Brightness (lm)	Forward Voltage (V)	Driving current (mA)
3011-UB0200H-AM	1	3.5x3.5x1.2	Yellow	0.30.3	100	3.3	300



UNIT : mm



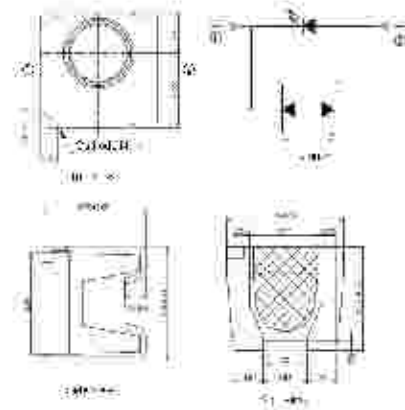
EL Micro Side View

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
3011-01020H-AM	1	3.0x1.5x1.2	White	0.30.34	-	1100	3	20
3011-02020H-AM	1	2.0x1.7x1.2	Emerald Green	0.43.228	-	900	2	20
3011-UB0200H-AM	1	3.0x1.5x1.2	Blue	-	457	210	3	20
3011-UB0200H-AM	1	2.0x1.7x1.2	Green	-	520	900	2	20
3011-UR0200H-AM	1	3.0x1.7x1.2	Red	-	620	800	1.9	20
3011-YW0200H-AM	1	3.0x1.5x1.2	Yellow	-	580	850	1.9	20
3011-SR0200H-AM	1	3.0x1.7x1.2	Super Red	-	620	500	1.9	20

Automotive LED | Interior Lighting



UNIT: mm

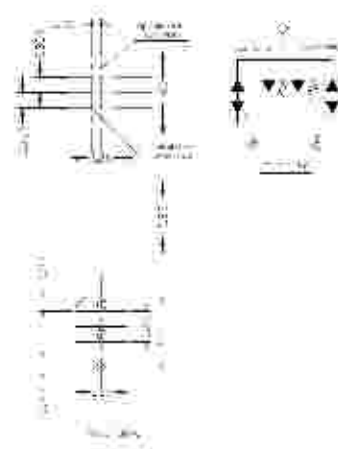


EL Side View

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x,y)	Wavelength (nm)	Brightness (mcd)	Forward voltage (V)	Driving current (mA)
ST11-C70200R-AM	1	4.0x4.0x0.5	White	(0.3,0.3)	-	1000	3	20
ST11-E1100L-AM	1	4.0x4.0x0.4	Pink Blue	(0.61,0.35)	-	350	2.8	15
ST11-S0100L-AM	1	4.0x4.0x0.5	Day Blue	(0.25,0.08)	-	300	3	10
ST11-U0000H-AM	1	4.0x4.0x0.6	Blue	-	460	300	3.1	20
ST11-R02200H-AM	1	4.0x4.0x0.5	Red	-	620	1120	3	20
ST11-Y02200H-AM	1	4.0x4.0x0.5	Yellow	-	590	1120	3	20



UNIT: mm



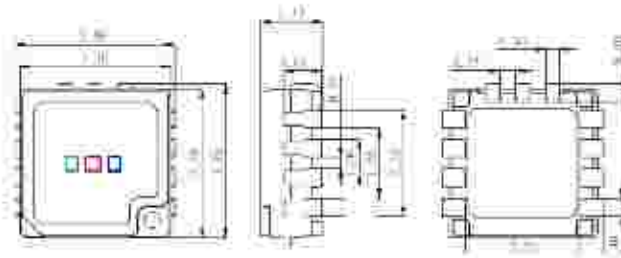
EL Micro Multi

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x,y)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ST1216-029W0001H-AM	2	1.6x1.2x0.8	Gold White	(0.322,0.336)	20	3.0	80
			Green White	(0.28,0.502)	20	3.0	80

Automotive LED | Ambient Lighting



UNIT : mm

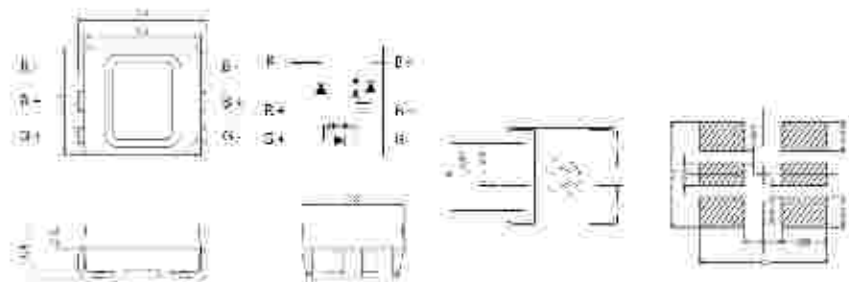


SMART RGB

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
EL5536-PCB0123010-AM	3	3.5x2.9x1.4	Red	White CIE x = 0.3327, CIE y = 0.3330 0.3 0.3	620	400	1.5	17
			Green		530	400	1.5	11
			Blue		480	100	0	9
			White		-	1000	1.5	23



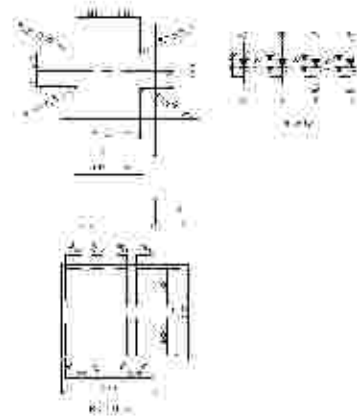
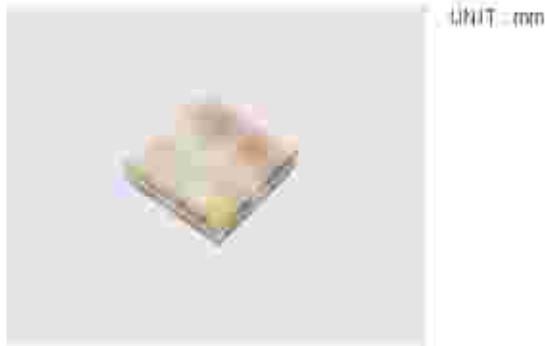
UNIT : mm



EL Top View RGB

Product	Chip quantity	Dimension (mm)	Color	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
EL5538-PCB0123010-AM	3	3.5x2.9x1.4	Red	625	710	1.85	20
			Green	525	700	3.3	20
			Blue	451	280	3.0	20

Automotive LED | Ambient Lighting



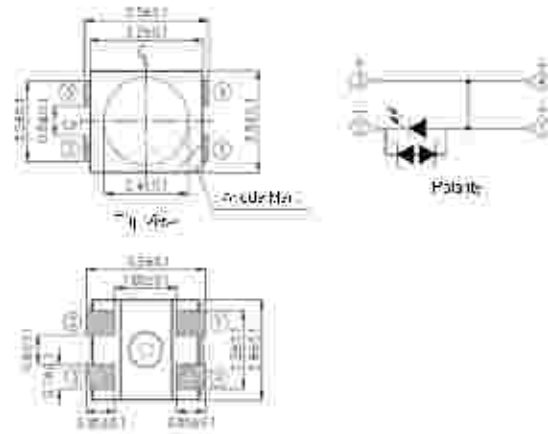
EL Multi Color

Product	Qty/quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x, y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving Current (mA)
D1225-408V020H-4AM	21	2.5x2.5x0.75	● Red	-	627	1150	1.85	30
			● Green	-	520	280	2.05	40
			● Blue	-	460	500	2.78	40
			↙ White	WHITE LED x 4000K CIE y = 0.202	-	5500	2.42	50
D1225-408V020H-4AM	21	2.5x2.5x0.75	● Red	-	630	1200	2.0	40
			● Green	-	520	280	2.05	40
			● Blue	-	460	300	3.0	30
			● Yellow	-	580	1000	2.4	40

Automotive LED | Exterior Lighting



UNIT: mm

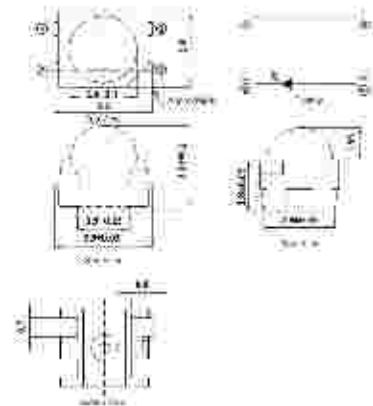


PLCC4

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x, y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
ST481CT001R4M	7	3.3*2.9*1.65	White	0.29, 0.34	-	2800	2.1	30
ST481P0003R4M	1	3.3*2.9*1.65	PC-Amber	0.57, 0.42	-	9000	2.1	30
ST481P0001R4M	1	3.3*2.9*1.65	Red	-	675	2200	2.2	50
ST481UY2001R4M	1	3.3*2.9*1.65	Yellow	-	590	2200	2.2	50
ST481SP0001R4M	1	3.3*2.9*1.65	Super Red	-	635	1000	2.2	50



UNIT: mm



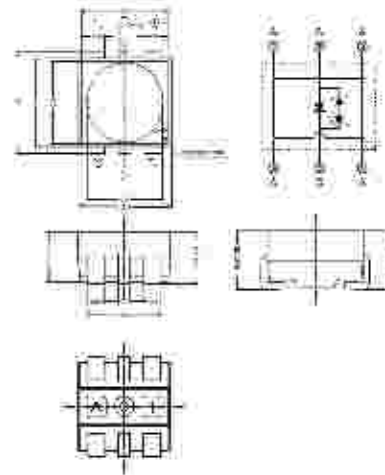
PLCC3 LENS

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x, y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
ST33EP5UR0001R4M	1	3.3*2.9*1.65	Super Red	-	635	1200	2	50
ST33EP5UR0003R4M	1	3.3*2.9*1.65	Red	-	635	1200	2	50

Automotive LED | Exterior Lighting



UNIT: mm

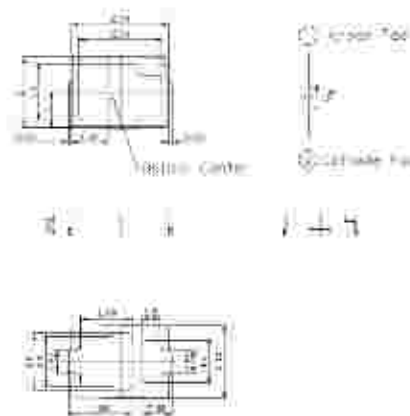


EL Advanced Power Top View

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
AGK-CT1501H-AM	1	3.4x3.4x1.3	C-White	0.33,0.34	-	1000	3.1	100
AGK-FA1501H-AM	1	1.0x1.0x1.3	PC-amber	0.75,0.42	-	110	3.1	100
AGK-UR1501H-AM	1	3.4x3.4x1.3	Red	-	643	7500	2.2	100
AGK-SR1501H-AM	1	1.0x1.0x1.3	Super Red	-	628	4500	2.2	100
AGK-UY1501H-AM	1	3.4x3.4x1.3	Yellow	-	589	5000	2.2	100



UNIT: mm



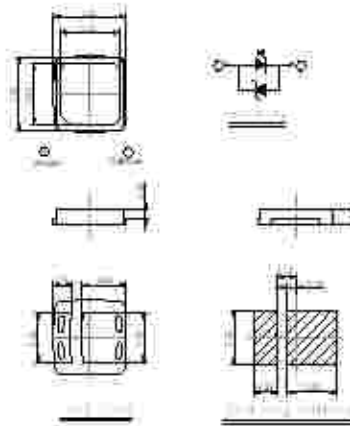
EL 2820

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ(x,y)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
ES0-CY2001H-AM	1	2.8x2.0x0.5	Yellow	-	590	30	2.4	200
ES0-UR2001H-AM	1	2.8x2.0x0.5	Red	-	640	30	2.4	200
ES0-SR2001H-AM	1	2.8x2.0x0.5	Super Red	-	620	27	2.4	200
ES0-CB2001H-AM	1	2.8x2.0x0.5	Cyan	0.3,0.5	-	110	2.4	300
ES0-FA3001H-AM	1	2.8x2.0x0.5	PC-amber	0.75,0.75	-	60	2.4	300
ES0-UY2001H-AM	1	2.8x2.0x0.5	Yellow	-	590	30	2.4	300
ES0-CR3001H-AM	1	2.8x2.0x0.5	Red	-	640	70	2.3	300
ES0-SR3001H-AM	1	2.8x2.0x0.5	Super Red	-	620	40	2.3	300
ES0-UR7001H-AM	1	2.8x2.0x0.5	Red	-	640	100	2.35	700
ES0-SR7001H-AM	1	2.8x2.0x0.5	Super Red	-	620	70	2.35	700

Automotive LED | Exterior Lighting



UNIT : mm

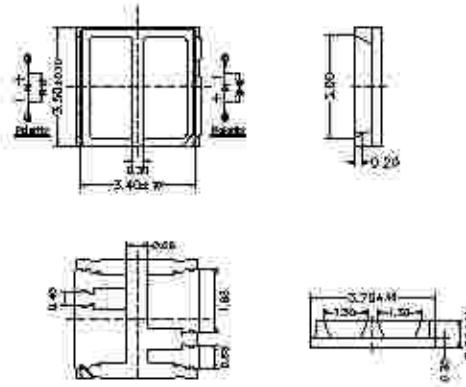


EL 3030

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typical)	Wavelength (nm)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
K19320-C015U1H-AM	1	0.9x2.0x0.92	C-White	0.322 0.332	-	82	3.1	150
K19320-FW1501M-AM	1	1.2x1.0x0.48	PC-Amber	0.57 0.42	-	86	2.9	150
K19320-C035U1H-AM	1	0.9x2.0x0.92	C-White	0.325 0.304	-	120	3.1	300
K19320-FW3501H-AM	1	1.2x1.0x0.48	PC-Amber	0.57 0.42	-	86	3.1	300
K19320-UR3501H-AM	1	0.9x3.0x0.92	Red	-	640	60	2.2	300
K19320-SF 201 (H-AM)	1	1.2x2.0x0.92	Super Red	-	630	80	2.2	300



UNIT : mm



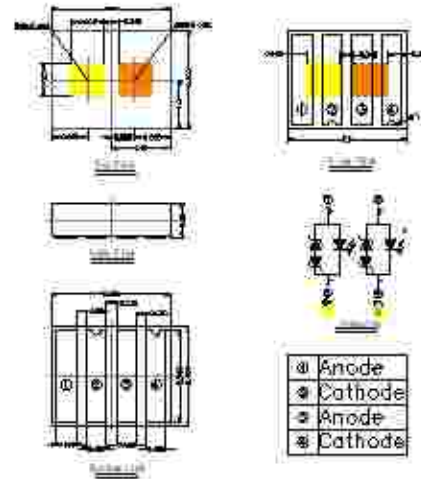
EL 3735

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typical)	Brightness (mcd)	Forward Voltage (V)	Driving current (mA)
3735-C08A1001H-AM	2	3.7x3.5x0.8	C-White	0.3 0.3	80	3	100
			PC-Amber	0.57 0.42	40	3	100
3735-C08A2101H-AM	2	3.7x3.5x0.8	C-White	0.3 0.3	80	3	300
			PC-Amber	0.57 0.42	40	3	300

Automotive LED | Exterior Lighting



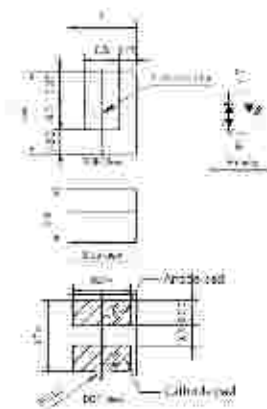
UNIT : mm



Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typical	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
LH2004-02FA300 01-AM	2	2.2x2.3x0.85	◀ White	0.20.3	-	140	3	300
	2	2.3x2.3x0.85	● PC Amber	0.67.0.42	-	40	3	300



UNIT : mm



EL 1210

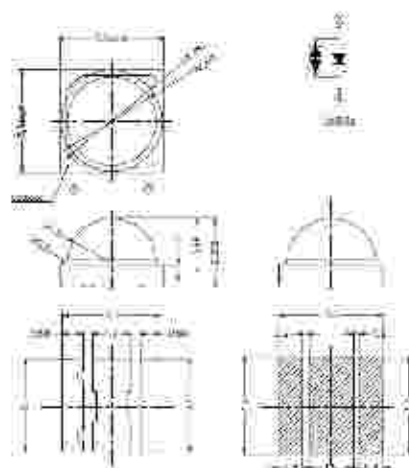
Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ (x,y)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
OH1210E-C00400H1-AM	1	1.2x1.0x0.9	◀ White	0.20.3	15	2.87	40
OH1210E-F40000H1-AM	1		◀ White	0.34.0.38	15	2.87	40
OH1210E-F40000H1-AM	1		● PC Amber	0.67.0.42	18	3	80
OH1210E-F40000H1-AM	1		● PC Red	0.65.0.335	18	3	80

Automotive LED

Automotive LED | Exterior Lighting



UNIT: mm



EL-3535E

Product	Chip quantity	Dimension (mm)	Color	Chromicity Coordinate (Typical)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
CH3535E-4R3535H-LAM	1	3.5x3.5x2.3	Red	-	615	75	2.02	300
CH3535E-4R3535L-LAM	1	3.5x3.5x2.3	Super Red	-	630	27	2.12	300

Automotive LED | Exterior Lighting



UNIT: mm

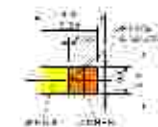


ALFS B series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ (xy)	Brightness (lm)	Forward Voltage (V)	Driving current (mA)
ALFS180-C010101L1AM	1	2.5x1.5x0.8	C.White	0.392, 0.632	300	3.5	1000



UNIT: mm



ALFS B series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Typ (xy)	Brightness (lm)	Forward Voltage (V)	Driving current (mA)
ALFS180-C01A07001L1AM	2	2.5x2.4x0.85	C.White P/O-amber	0.39, 0.39 0.57, 0.43	250 100	3.5	700
ALFS180-C010011H1AM	2	2.9x2.0x0.85	C.White	0.39, 0.39	700	3.7	1000

Automotive LED | Exterior Lighting



UNIT: mm



①	Available
②	Optional
③	Through part

ALFS E series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typ.v)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFS1E-C0P003H-AM	1	1.2x1.9x0.7	White	0.30.3	-	200	3.2	300
ALFS1E-PACT03H-AM	1	1.2x1.9x0.7	PC Amber	0.71.3.42	-	100	3.3	700



UNIT: mm



①	Available
②	Optional
③	Through part

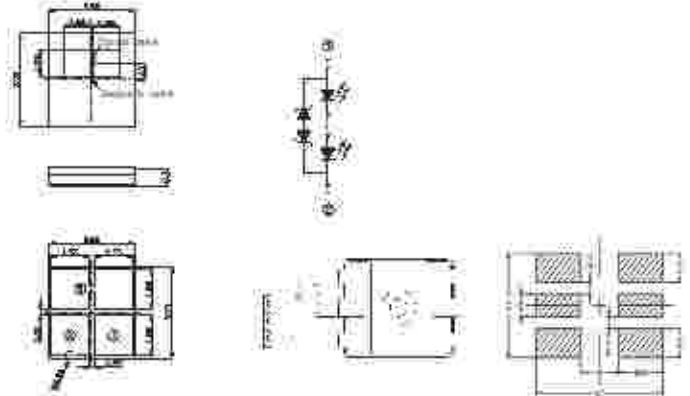
ALFS G series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typ.v)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFS1G-C01000H-AM	1	2x1.9x0.7	White	0.30.3	-	300	3.3	1000
ALFS1G-PK1000H-AM	1	2x1.9x0.7	PC Amber	0.71.3.42	-	200	3.3	1000

Automotive LED | Exterior Lighting



UNIT : mm

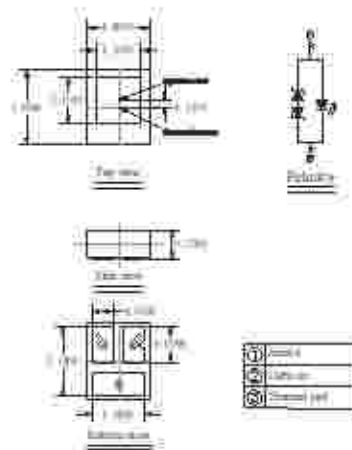


ALFS G series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type (λ)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFSG-C010001H-AM	2	3.75x3.5x2.7	White	0.300	-	700	3.7	1000



UNIT : mm



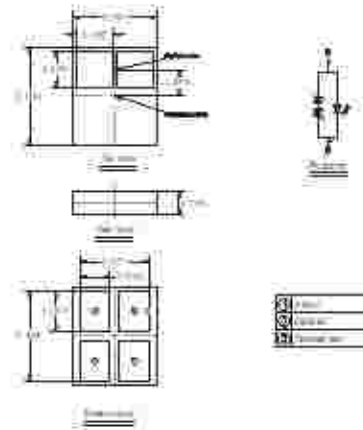
ALFS H series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type (λ)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFSH-C010001H-AM	1	3.5x3.5x2.7	White	0.300	-	800	3.5	1000

Automotive LED | Exterior Lighting



UNIT: mm

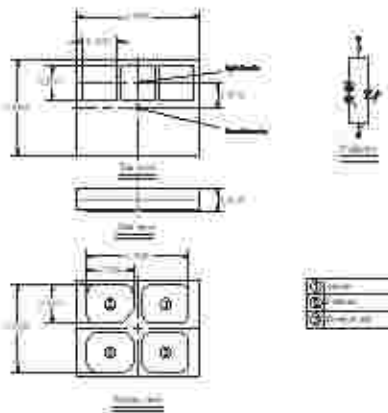


ALFS H series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x, y)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFS0H-C010001H-AM	2	3.142.7±0.1	White	D.3.D.3	~	520	3.2	1000



UNIT: mm



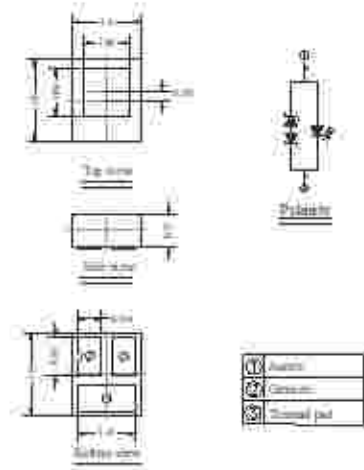
ALFS H series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate Type(x, y)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFS0H-C010001H-AM	3	3.143.5±0.1	White	D.3.D.3	~	1230	3.8	1000

Automotive LED | Exterior Lighting



UNIT: mm

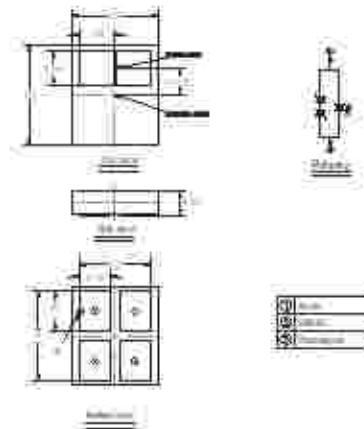


ALFS J series:

Product	Chip quantity	Dimension (mm)	Color	Chipability Coordinate (Type-V)	Wavelength (nm)	Brightness (m)	Forward voltage (V)	Driving current (mA)
ALFS12-03H500H-AM	1	1.5x1.5x0.7	White	0.3.0.3	-	425	3.3	1000



UNIT: mm



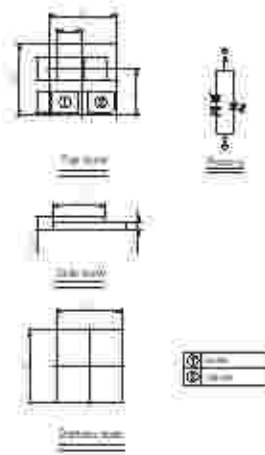
ALFS J series:

Product	Chip quantity	Dimension (mm)	Color	Chipability Coordinate (Type-V)	Wavelength (nm)	Brightness (m)	Forward voltage (V)	Driving current (mA)
ALFS22-03H500H-AM	2	2.5x2.5x0.7	White	0.3.0.3	-	500	3.7	1000

Automotive LED | Exterior Lighting



UNIT: mm

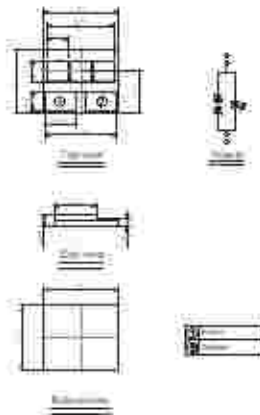


ALFS HT series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typ.)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFSHT-011000H-A4	2	3.9x3.2x0.75	White	0.305	-	800	3.3	1000



UNIT: mm



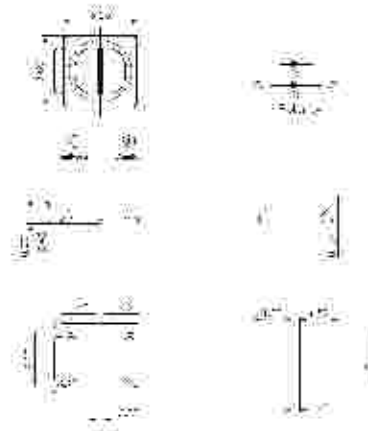
ALFS HT series

Product	Chip quantity	Dimension (mm)	Color	Chromaticity Coordinate (Typ.)	Wavelength (nm)	Brightness (lm)	Forward voltage (V)	Driving current (mA)
ALFSHT-011000H-A4	3	3.9x3.2x0.75	White	0.305	-	1200	3.75	1000

Backlighting LED | Direct Type Product



UNIT : mm

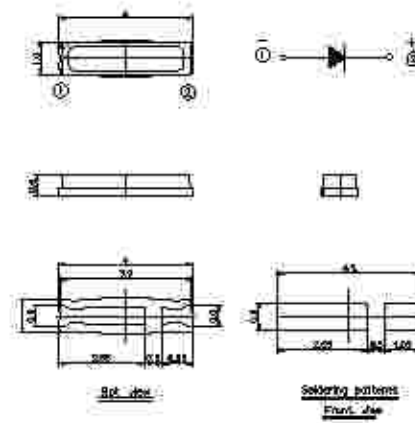


Product	Dimension (mm)	Color	Power(W)	CRI(x/y)	η(m, mW)	V(FV)	Viewing Angle(°)
BL-3010PVE	3.0x3.0x0.6	White	1.8	X=0.2735, Y=0.2283	175-195	3.0-3.5	120

Backlighting LED | Edge Type Product



UNIT : mm



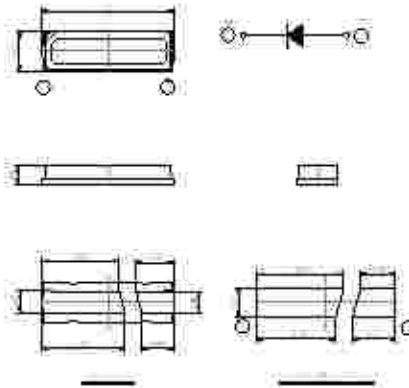
4010

Product	Dimension (mm)	Color	Power(W)	CRI(x/y)	η(m, mW)	V(FV)	Viewing Angle(°)
BL-4010M101	4.0x4.0x0.6	White	0.5	X=0.38, Y=0.28	16-28	2.7-3.4	120

Backlighting LED | Edge Type Product



UNIT: mm

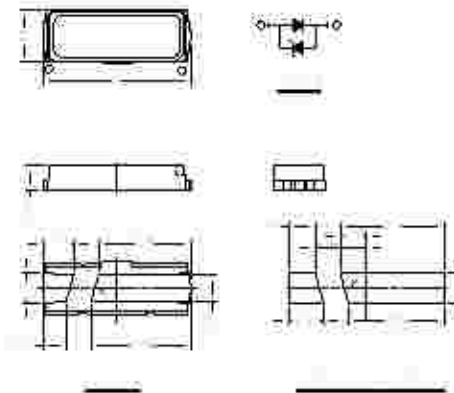


4012

Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	η (lm/mW)	VFI(%)	Viewing Angle(°)
BL-4012R11T	4.0x1.2x0.6	C White	0.4	x:0.29, y:0.05	35-45	22-24	120



UNIT: mm



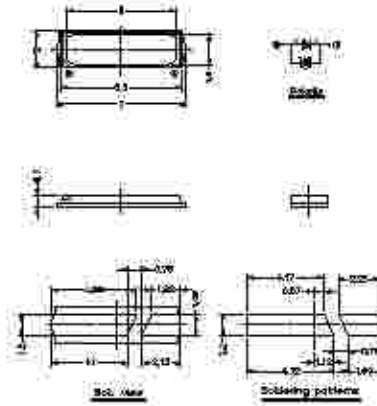
4014

Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	η (lm/mW)	VFI(%)	Viewing Angle(°)
BL-4014C21T	4.5x1.4x0.55	C White	0.4	x:0.29, y:0.05	35-45	22-24	120

Backlighting LED Edge Type Product



UNIT : mm

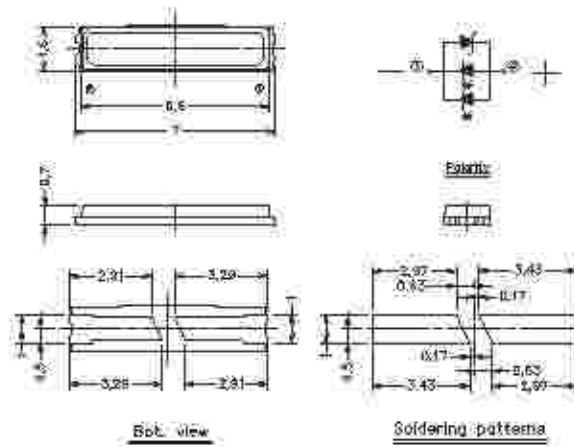


7020

Product	Dimension (mm)	Color	Power(W)	CE(xy)	η(mcd/W)	VF(V)	Viewing Angle(°)
BL-7020N211	7.0x2.0x1.7	▷White	0.4	X=0.28 Y=0.29	87-91	2.7-3.4	120



UNIT : mm



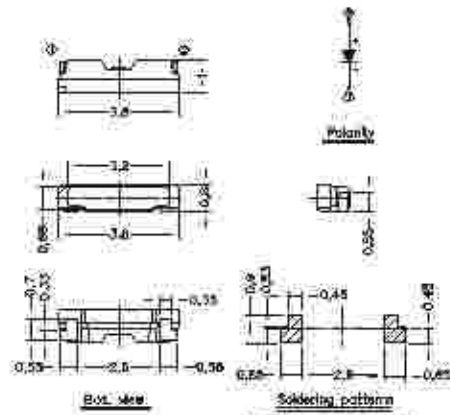
7016

Product	Dimension (mm)	Color	Power(W)	CE(xy)	η(mcd/W)	VF(V)	Viewing Angle(°)
BL-7016N221	7.0x1.6x1.7	▷White	0.3	X=0.28 Y=0.28	89-95	2.7-3.4	120

Backlighting LED I Side View Product



UNIT: mm

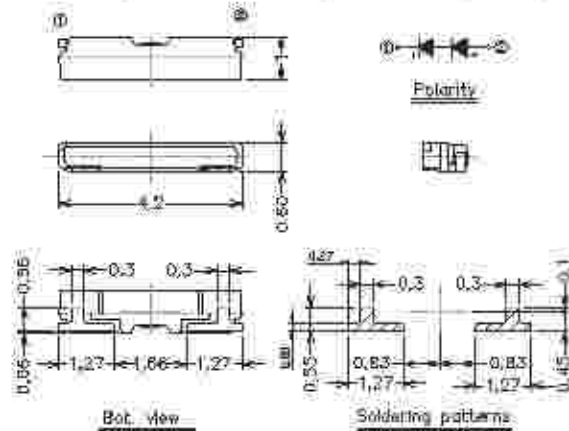


Should not immerse in wet atmosphere. Turn leads to wet junction lead in liquid use.

Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	W(lm.m/W)	VF(V)	Viewing Angle(°)
BL-303521P	3.5x1.0x0.8	C White	0.08	X=0.280 Y=0.28	3000-4000	2.7-3.4	120



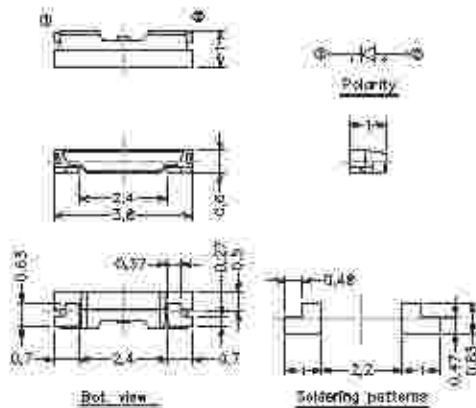
UNIT: mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	W(lm.m/W)	VF(V)	Viewing Angle(°)
BL-4035512P	4.2x1.0x0.6	C White	0.12	X=0.280 Y=0.28	78-111	2.4-3.8	120



UNIT: mm

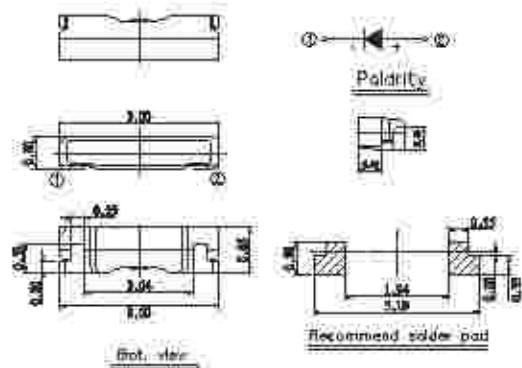


Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	W(lm.m/W)	VF(V)	Viewing Angle(°)
BL-303521TF	3.5x1.5x0.8	C White	0.06	X=0.280 Y=0.28	3000-4000	2.7-3.4	120

Backlighting LED I Side View Product



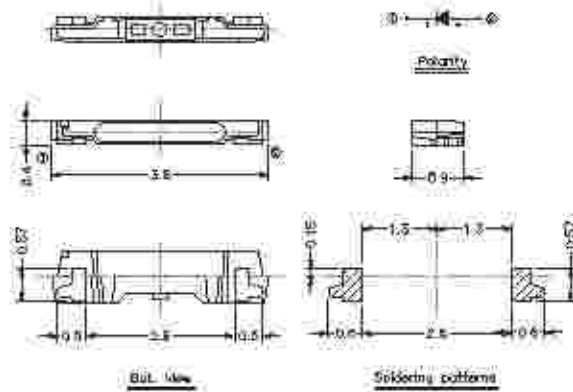
UNIT : mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	Vlm(mW)	VF(V)	Viewing Angle(°)
BL-3100NM1P	2.0x0.25x0.4	<White	0.05	X=0.285 Y=0.28	5.75±0.20	2.7-3.4	120



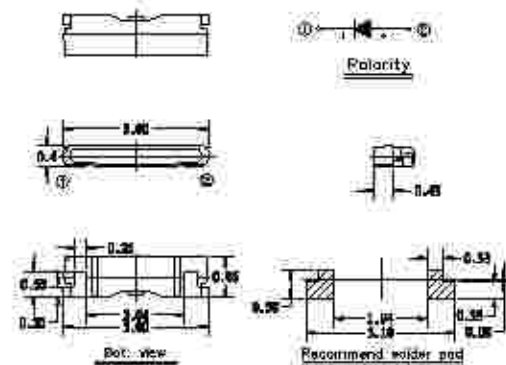
UNIT : mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	Vlm(mW)	VF(V)	Viewing Angle(°)
BL-3100CM1P	3.5x0.5x0.4	<White	0.05	X=0.285 Y=0.28	6.25±0.05	2.7-3.4	120



UNIT : mm

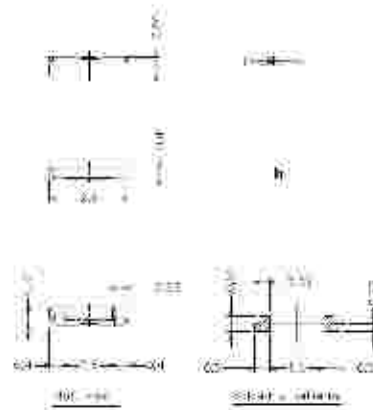


Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	Vlm(mW)	VF(V)	Viewing Angle(°)
BL-3100TH1P	2.0x0.25x0.4	<White	0.05	X=0.285 Y=0.28	5.75±0.20	2.7-3.4	120

Backlighting LED I Side View Product



UNIT: mm



Product	Dimension (mm)	Color	Power(W)	CR(x/y)	WPM(mW)	VF(V)	Viewing Angle(°)
BL-0504011P	2.5x4.0x10.0	White	0.05	x=0.280 y=0.28	5.25~8.25	2.7~3.4	115



UNIT: mm

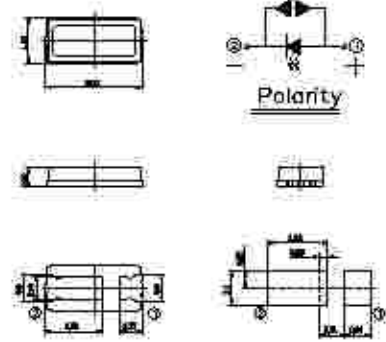


Product	Dimension (mm)	Color	Power(W)	CR(x/y)	WPM(mW)	VF(V)	Viewing Angle(°)
BL-0504011CC	2.5x4.0x10.0	White	0.05	x=0.280 y=0.28	5.25~8.25	2.7~3.4	115

Backlighting LED I Automotive Product



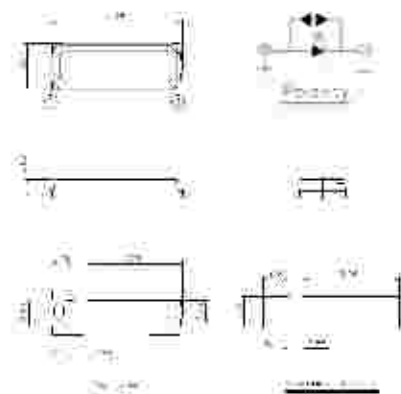
UNIT : mm



Product	Dimension (mm)	Color	Power(W)	CE(λ,γ)	λ(m, mW)	VF(V)	Viewing Angle(°)
BLK-304P21U	2.5(1.1) x 0.6	White	0.25	X=0.277, Y=0.247	20-30	2.7-3.4	120



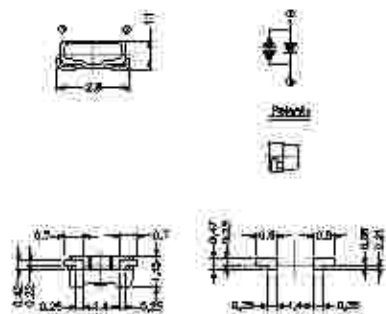
UNIT : mm



Product	Dimension (mm)	Color	Power(W)	CE(λ,γ)	λ(m, mW)	VF(V)	Viewing Angle(°)
BLK-404P21E	4.0(1.8) x 0.6	White	0.4	X=0.277, Y=0.247	20-30	2.7-3.4	120



UNIT : mm

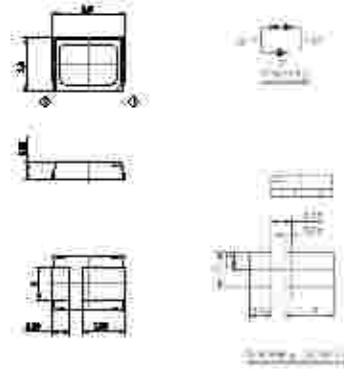


Product	Dimension (mm)	Color	Power(W)	CE(λ,γ)	λ(m, mW)	VF(V)	Viewing Angle(°)
BLA-010N211	2.8(1.15) x 1.1	White	0.15	X=0.277, Y=0.247	20-30	2.7-3.4	120

Backlighting LED I Automotive Product



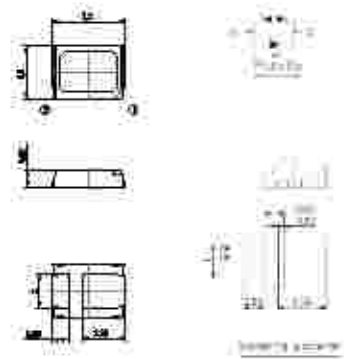
UNIT : mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	η (lm/ledW)	VF(V)	Viewing Angle(°)
BLA-2519H21TH50	2.0x1.9x0.55	White	0.03	X=0.2735, Y=0.2285	23-4.0	2.5-2.85	120



UNIT : mm

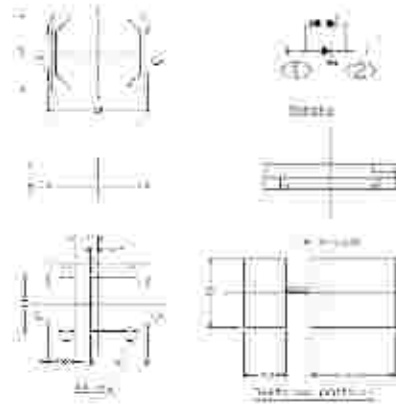


Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	η (lm/ledW)	VF(V)	Viewing Angle(°)
BLA-2519H21CTH50	2.0x1.9x0.55	White	0.03	X=0.2735, Y=0.2285	23-4.0	2.5-2.85	120

Backlighting LED | Automotive Product



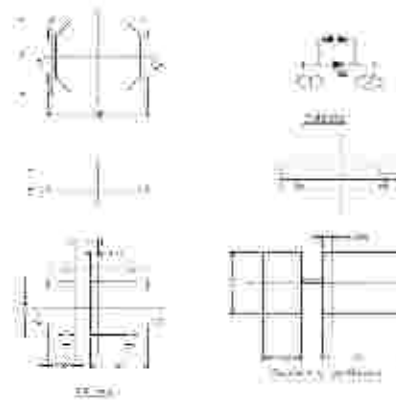
UNIT: mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	Iv(lm/W)	VF(V)	Viewing Angle(°)
BLA-2E30A21THBC	3.5x2.8x0.7	UVWhite	0.03	x=0.2735, y=0.2293	3.25-4.8	2.9-2.95	100



UNIT: mm

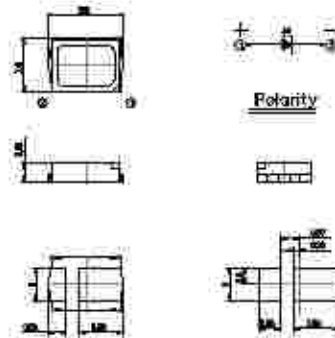


Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	Iv(lm/W)	VF(V)	Viewing Angle(°)
BLA-2E30A21CHBC	3.5x2.8x0.7	UVWhite	0.03	x=0.2735, y=0.2293	2.75-4	2.9-2.95	100

Backlighting LED Local Dimming Product



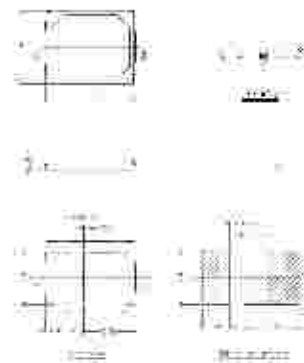
UNIT: mm



Product	Dimension (mm)	Color	Power(W)	OBE(x/y)	η(lm/w)	VFM	Viewing Angle(°)
BL-020HMT	2.0x1.5x0.5E	●Blue	0.03	447.3~457.3	9~20lm/w	2.3~3	120



UNIT: mm

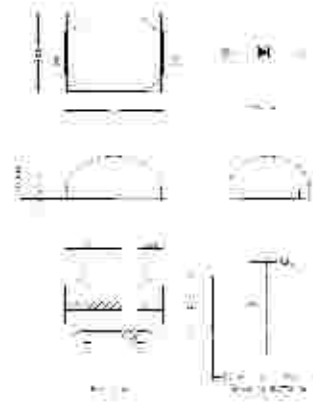


Product	Dimension (mm)	Color	Power(W)	OBE(x/y)	η(lm/w)	VFM	Viewing Angle(°)
BL-020HMT	2.5x2.8x0.7	●Blue	0.03	447.3~457.3	20~30lm/w	2.3~3	120

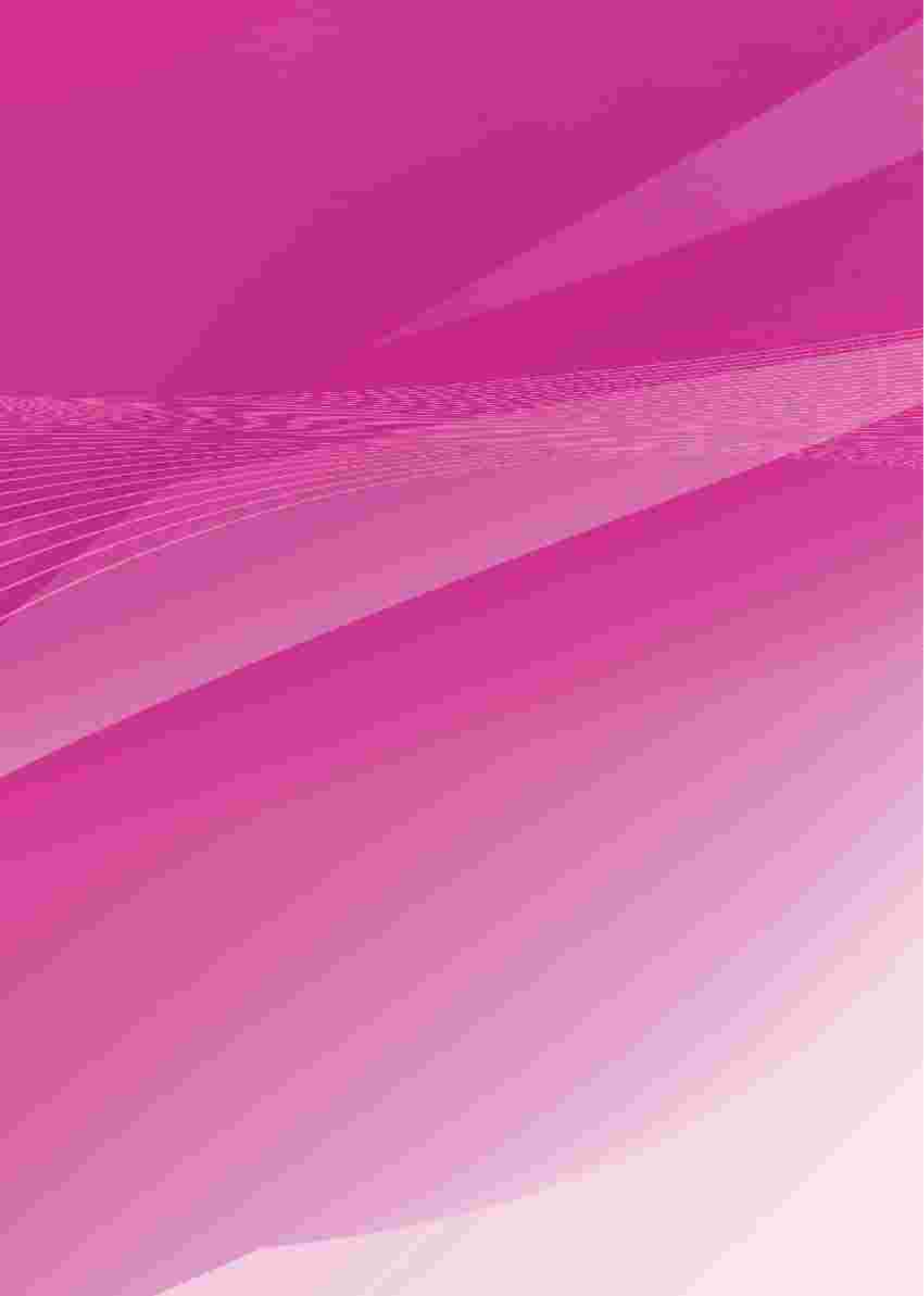
Backlighting LED II Local Dimming Product



UNIT: mm



Product	Dimension (mm)	Color	Power(W)	CIE(x,y)	η(lm/zt/W)	VF(V)	Viewing Angle(°)
BL-2602LV10TBC	2.5x2.5x1.8	Blue	0.15	417.3-027.5	70-100lm/W	2.8-3.7	180



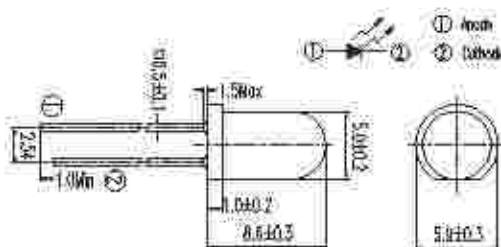
INFRARED LED, SENSORS, COUPLERS

- 208** INFRARED LED AND SILICON DETECTOR
- 243** INFRARED RECEIVER MODULE
- 250** OPTIC-FIBER DEVICE (PHOTO LINK)
- 251** Optical Switch
- 258** OPTICAL SENSOR
- 265** PHOTO COUPLER

Infrared LED and Silicon Detector | Emitter | Lamp



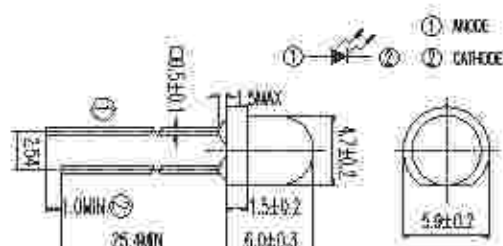
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V _f Typ (V)	V _f Max (V)	I _f (mA)	L _{Min} (mW/m)	L _{Typ} (mW/m)
HR353HG	5	30	1.45	1.65	600	7.5	10
HR353CH	5	30	1.45	1.65	600	7.5	10
HR354	5	25	1.2	1.5	940	7.5	20
HR35HG	5	30	1.2	1.5	600	7.5	7.5
HR35HG10	5	40	1.2	1.5	940	11	12
HR35C	8	30	1.2	1.5	700	2.5	10
HR35HG10	5	40	1.2	1.5	940	7.5	12
HR35C10	8	30	1.2	1.5	700	2.5	10
SR354	5	111	1.5	1.8	170	7.5	10



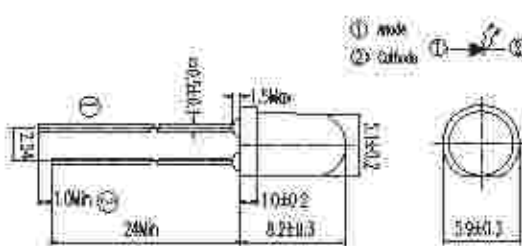
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V _f Typ (V)	V _f Max (V)	I _f (mA)	L _{Min} (mW/m)	L _{Typ} (mW/m)
HR353C	5	35	1.45	1.65	600	7.5	30
HR353CH10	5	30	1.45	1.65	600	7.5	11
HR35	5	30	1.2	1.5	940	4	10.5
HR35HG4	5	30	1.2	1.5	940	2	3.5
SR353-S	5	25	1.3	1.6	670	4	7.5



UNIT: mm

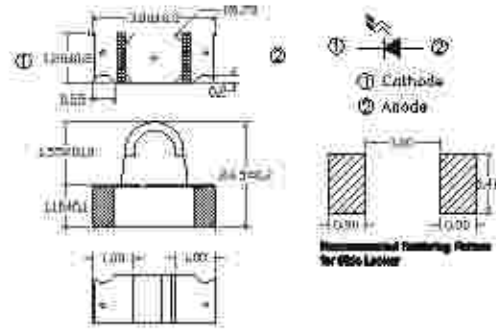


Product	Dimension (mm)	View Angle(°)	V _f Typ (V)	V _f Max (V)	I _f (mA)	L _{Min} (mW/m)	L _{Typ} (mW/m)
HR373C	5	40	1.45	1.65	600	7.5	10
HR373C	5	30	1.2	1.5	940	2.5	8

Infrared LED and Silicon Detector | Emitter | SMD



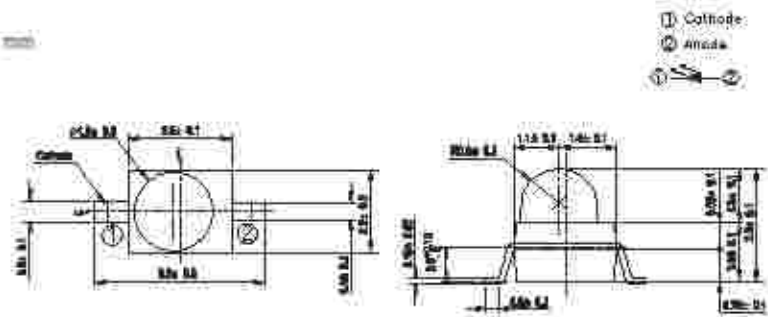
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	λ_c (nm)	I_{c_Min} (mW/10)	I_{c_Typ} (mW/10)
IR05-SH02746R/189	3.0x1.2x2.95	20	1.25	1.5	840	4	5



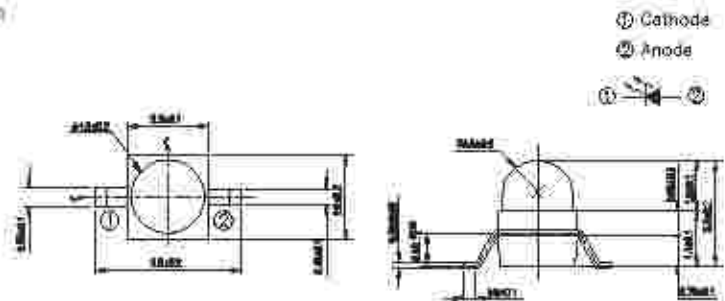
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	λ_c (nm)	I_{c_Min} (mW/10)	I_{c_Typ} (mW/10)
IR21-01C	2.5x2.2x2.7	20	1.2	1.5	840	3	5
IR21-01C/TR10	2.5x2.2x2.7	20	1.2	1.5	840	3	5
IR21-01C/TR1	2.5x2.2x2.7	25	1.2	1.5	840	3	5
IR21-01C/TR10	2.5x2.2x2.7	20	1.2	1.5	840	3	5
IR21-01C/TR7	2.5x2.2x2.7	25	1.2	1.5	840	3	5



UNIT: mm

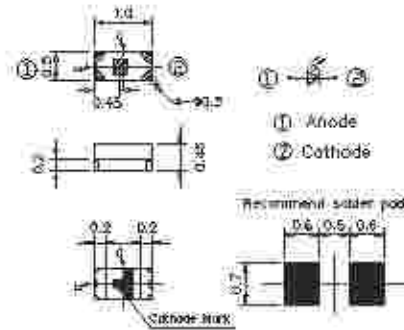


Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	λ_c (nm)	I_{c_Min} (mW/10)	I_{c_Typ} (mW/10)
IR50-21C/TR7	2.1x2.2x2.7	25	1.2	1.5	840	3	5
IR50-21C/TR10 VTR10	2.1x2.2x2.7	25	1.2	1.5	840	3	5
IR50-21C/TR9	2.1x2.0x2.7	25	1.2	1.5	840	3	5
IR50-21C/TR10	2.1x2.2x2.7	25	1.2	1.5	840	3	4

Infrared LED and Silicon Detector | Emitter | SMD



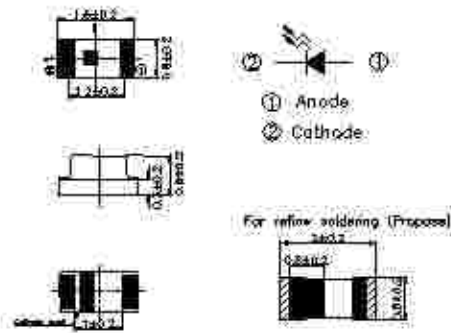
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_s (mm)	I_{f_Min} (mW/sr)	I_{f_Typ} (mW/sr)
HR10-2140L210TPH	1.0x0.5x0.45	45°	1.45	1.65	850	0.5	1.0
HR10-2140L210TPH	1.0x0.5x0.45	70°	1.4	1.6	850	0.2	2.0



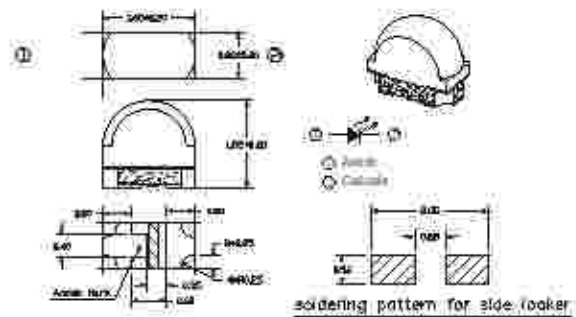
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_s (mm)	I_{f_Min} (mW/sr)	I_{f_Typ} (mW/sr)
HR10-2140L210TPH	1.5x0.3x0.8	45°	1.45	1.65	850	0.2	0.8
HR10-2140L210TPH	1.5x0.3x0.8	70°	1.45	1.65	850	1	1.65
HR10-2140L210TPH	1.5x0.3x0.8	100°	1.2	1.5	850	0.2	0.7
HR10-2140L210TPH	1.5x0.3x0.8	120°	1.0	1.0	850	0.2	0.5



UNIT: mm

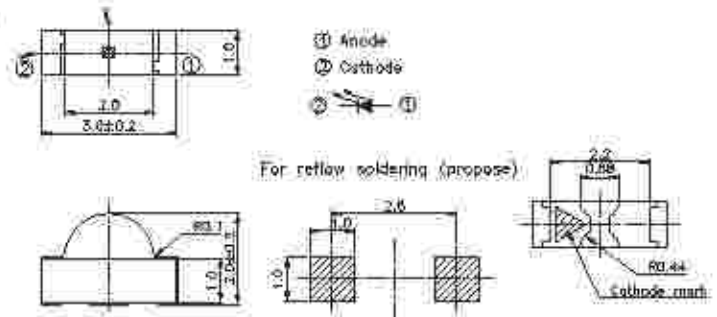


Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_s (mm)	I_{f_Min} (mW/sr)	I_{f_Typ} (mW/sr)
HR10-2140L210TPH	1.8x0.8x1.52	100°x140(°)	1.8	1.7	850	2	3
HR10-2140L210TPH	1.8x0.8x1.52	115°x145(°)	1.5	1.5	850	2	2.5

Infrared LED and Silicon Detector | Emitter | SMD



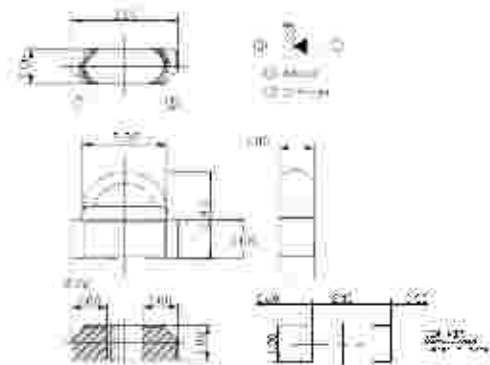
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_L (mm)	Δ_{LMH} (mW/Str)	I_{f_Typ} (mA/Str)
IRF12310TPB	3.6x1.0x2.0	120	1.65	1.65	650	0.1	1.5
IRF1210TPB	3.6x1.0x2.0	160	1.6	1.6	500	0.2	0.9
SIRF1210TPB	3.6x1.0x2.0	160	1.5	1.6	800	0.3	0.3



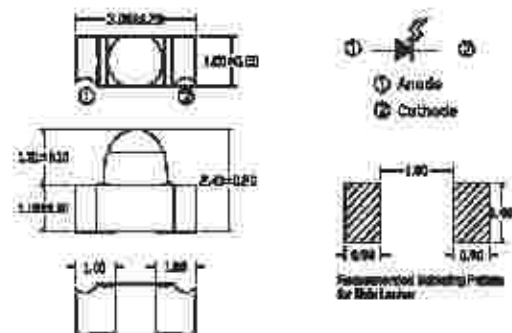
UNIT : mm



Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_L (mm)	Δ_{LMH} (mW/Str)	I_{f_Typ} (mA/Str)
IRF1210L2D	5.0x1.0x2.4	120X120(°)	1.8	1.8	500	-	0
IRF1210L2D	5.0x1.0x2.4	120X120(°)	1.2	1.2	500	5	0



UNIT : mm

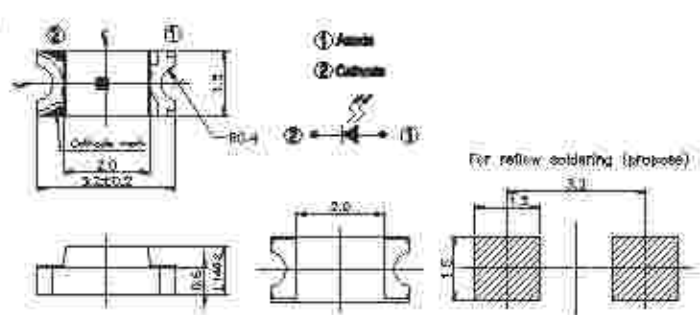


Product	Dimension (mm)	View Angle(°)	V_{f_Typ} (V)	V_{f_Max} (V)	A_L (mm)	Δ_{LMH} (mW/Str)	I_{f_Typ} (mA/Str)
IRF1210CLM7PBE3TRB	3.0x1.2x2.4	60	1.8	1.8	500	5	0.5

Infrared LED and Silicon Detector | Emitter | SMD



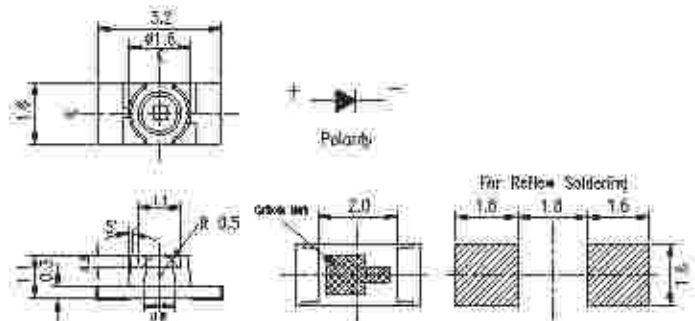
UNIT mm



Product	Dimension (mm)	View Angle(°)	V _{c_Typ} (V)	V _{c_Max} (V)	L _i (nm)	L _{Min} (mW/50)	L _{c_Typ} (mW/50)
HR25-21GL20RE	3.2x1.5x1.1	180	1.2	1.5	830	0.2	0.8
HR25-21GL20TEB	3.2x1.5x1.1	150	1.40	1.65	850	0.5	1.5



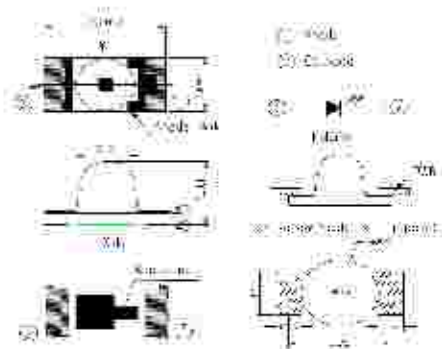
UNIT mm



Product	Dimension (mm)	View Angle(°)	V _{c_Typ} (V)	V _{c_Max} (V)	L _i (nm)	L _{Min} (mW/50)	L _{c_Typ} (mW/50)
HR25-21GL20MST	3.2x1.5x1.0	80	1.4	1.7	850	0	0
HR25-21GL20TEB	3.2x1.5x1.1	70	1.40	1.60	850	0	0.5
HR25-21GL20RE	3.2x1.5x1.1	180	1.2	1.5	840	0.5	1.5



UNIT mm

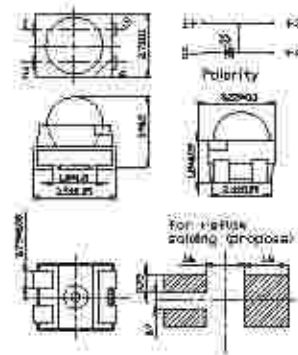


Product	Dimension (mm)	View Angle(°)	V _{c_Typ} (V)	V _{c_Max} (V)	L _i (nm)	L _{Min} (mW/50)	L _{c_Typ} (mW/50)
HR25-21GL20MTEB	3.2x1.5x1.0	25	1.4	1.7	850	10	17
HR25-21GL20TEB	3.2x1.5x1.1	30	1.5	1.7	850	14	18
HR25-21GL110TRE	3.2x1.5x1.0	20	1.2	1.5	840	1	3
HR25-21GL20TCT	3.2x1.5x1.1	20	1.2	1.5	840	11	18

Infrared LED and Silicon Detector | Emitter | SMD



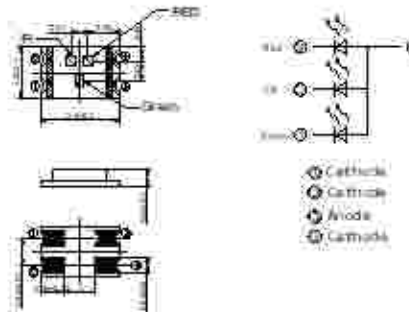
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V _{c_Typ} (V)	V _{c_Max} (V)	I _c (mA)	I _{c_Max} (mA/W)	I _{c_Typ} (mW/m)
HR91-SUD260TR	3.5x2.7x0.7	35	2.80	3.3	80	4.3	11
HR91-SD260TR	3.5x2.7x1.0	120	1.7	1.6	80	1.7	3.5



UNIT: mm



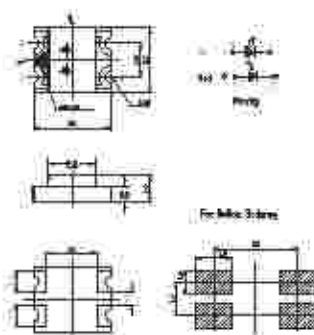
Product	Dimension (mm)	View Angle(°)	V _{c_Typ} (V)	V _{c_Max} (V)	I _c (mA)	I _{c_Max} (mW/m)	I _{c_Typ} (mW/m)
HR92-1910W343R5-TR	1.5x1.6x0.5	310(R) 110(D)	-	1.3(R) 2.0(D)	50(R) 50(D)	1.25(R) 1.1(D)	10(R) 14(D)
HR92-1910W343R5-IT	2x2x0.5	110(R) 90(D)	1.0(R) 2.0(D)	1.0(R) 2.0(D)	30(R) 50(D)	0.8(R) 2.0(D)	-
HR92-1910W343R5-TR	2.5x1.8x0.5	420	3.0(R) 1.0(D)	3.5(R) 1.0(D)	55(R) 30(D)	1.30(R) 1.50(D)	-

Infrared LED and Silicon Detector | Emitter | SMD

Infrared LED and Silicon Detector



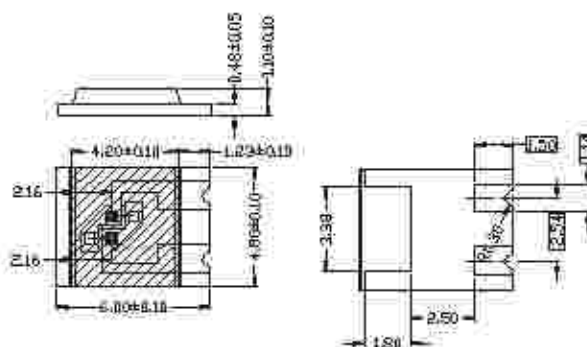
UNIT: mm



Product	Dimension (mm)	View Angle(°)	V _f Typ (V)	V _f Max (V)	λ _e (nm)	I _v Max (mA)	I _v Typ (mW/50°)
IR115-22CL56R7PR	3.2x2.7x1.0	140	1.8(R)1.3(IR)	2.8(R)1.9(IR)	850(R)850(PR)	10(R)10(IR)	1.0(R)1.5(IR)
IR115-22CL56R7PR	3.3x2.7x1.0	120	1.8(R)1.3(IR)	2.8(R)1.9(IR)	850(R)850(PR)	10(R)10(IR)	2.0(R)2.0(IR)



UNIT: mm

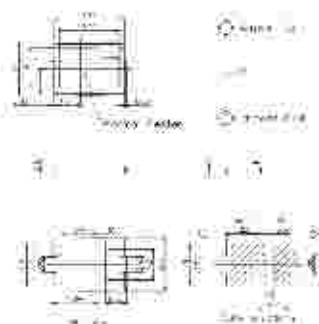


Product	Dimension (mm)	View Angle(°)	V _f Typ (V)	V _f Max (V)	λ _e (nm)	I _v Max (mA)	I _v Typ (mW/50°)
IR115-22CL56R7PR	3.2x2.7x1.1	140(R)140(PR)	2.1(R)1.4(PR)	3.5(R)1.8(PR)	850(R)850(PR)	10(R)10(PR)	2.0(R)1.5(PR)
IR115-22CL56R7PR	3.3x2.7x1.1	140(R)140(PR)	2.1(R)1.4(PR)	3.5(R)1.8(PR)	850(R)850(PR)	10(R)10(PR)	2.0(R)1.5(PR)

Infrared LED and Silicon Detector ■ Emitter ■ High power



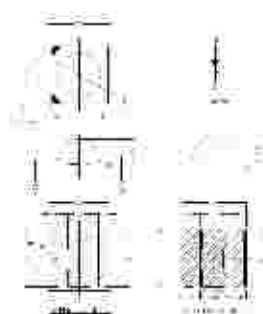
UNIT: mm



Product	Dimension (mm)	Viewing Angle(°)	V_F _Typ (V) (I _F =1A)	λ_p (nm)	I_E _Typ (mW/w) (I _F =1A)	P_o _Typ (mW) (I _F =1A)
HR-C384P (20x24x4) POWER	2.8x2.8x0.4	120	-	850	-	1.5



UNIT: mm

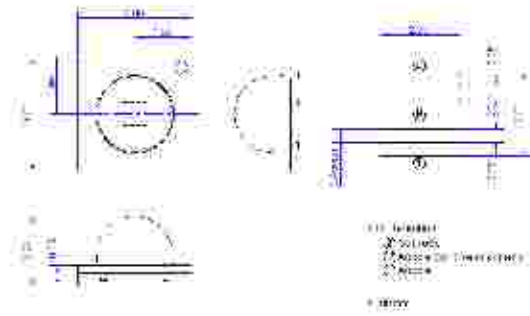


Product	Dimension (mm)	Viewing Angle(°)	V_F _Typ (V) (I _F =1A)	λ_p (nm)	I_E _Typ (mW/w) (I _F =1A)	P_o _Typ (mW) (I _F =1A)
HR-C180A-3H120LS48-P00TR	3.5x3.5x1.025	120	3.1	850	275	1100
HR-C180A-3H120LS48-P00TE	3.5x3.5x2.25	60	3.3	850	350	1330
HR-C380P-11/30-LS48-P00S-TR-AM	3.8x3.8x2.4	40	3.2	850	1100	4280

Infrared LED and Silicon Detector ■ Emitter ■ High power



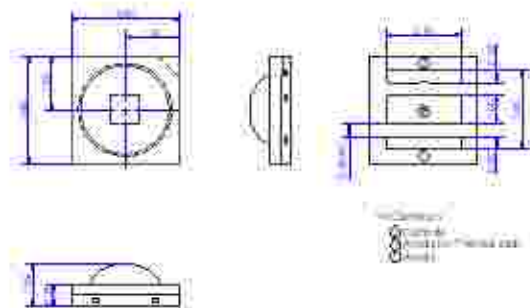
UNIT: mm



Product	Dimension (mm)	Viewing Angle(°)	V_F _Typ (V) (I _F =1A)	λ_p (nm)	I_E _Typ (mW/sr) (I _F =1A)	P_d _Typ (mW) (I _F =1A)
HC-HR200020C1A320A5000E1	3.9x3.9x2.85	50	2	850	350	500
HC-HR200020C1A320A0000E1	3.9x3.9x2.25	80	1.8	850	380	300
HC-HR200020C1A320A3000E1	3.9x3.9x2.25	90	1.77	850	410	720
HC-HR200020C1A320A2000E1	3.9x3.9x2.1	120	1.85	850	240	700
HC-HR200010C1A320A1000E1	3.9x3.9x1.45	150	1.85	850	170	700
HC-HR200010C0L320A0000E1	3.9x3.9x1.45	120	1.85	850	320	720
HC-HR200010C1A320A1000E1	3.9x3.9x1.45	150	1.7	850	190	750



UNIT: mm



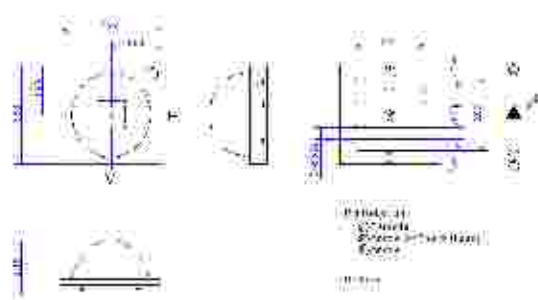
Product	Dimension (mm)	Viewing Angle(°)	V_F _Typ (V) (I _F =1A)	λ_p (nm)	I_E _Typ (mW/sr) (I _F =1A)	P_d _Typ (mW) (I _F =1A)
HC-HR20002702A041A0000E1	5.9x3.9x2.25	50	3.35	940	920	1140
HC-HR20002702A041A0000E1	5.9x3.9x2.85	50	2.9	840	1200	2250
HC-HR20002902A041A0000E1	5.9x3.9x2.75	80	2.8	840	890	1090
HC-HR20002702A041A0000E1	5.9x3.9x2.25	90	3.40	840	730	2220
HC-HR20002202A041A1200BT	5.9x3.9x2.1	120	2.9	940	420	730
HC-HR20002202A041A0000E1	5.9x3.9x1.45	150	3.54	840	340	1270
HC-HR20002202A041A1200BT	5.9x3.9x2.2	120	1.85	940	230	670
HC-HR20001002A041A0000E1	5.9x3.9x1.45	150	1.6	840	140	340

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Emitter | High power



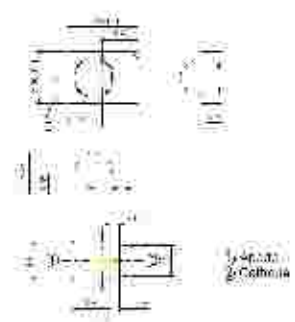
UNIT: mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (IF=1A)	λp(nm)	IE_Typ (mW/sr) (IF=1A)	Pd_Typ (mW) (IF=1A)
HQ-HR3922C1LSK3-R0120BT	3.8x3.8x2.15	120/90	1.8	950	310	745



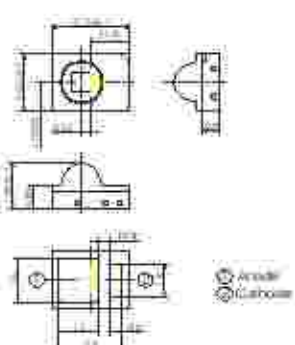
UNIT: mm



Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (IF=1A)	λp(nm)	IE_Typ (mW/sr) (IF=1A)	Pd_Typ (mW) (IF=1A)
HQ-HR3922C170J4LBT3-0650BT	2.8x2.8x1.05	80	3.5	840	130	1100



UNIT: mm

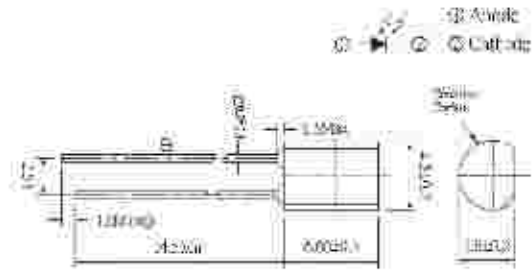


Product	Dimension (mm)	Viewing Angle(°)	VF_Typ (V) (IF=800mA)	λp(nm)	IE_Typ (mW/sr) (IF=800mA)	Pd_Typ (mW) (IF=800mA)
HQ-HR3922C170J4LBT3-0650BT	2.8x2.8x1.05	80	3.5	840	130	1100

Infrared LED and Silicon Detector | Photo Diode | Side Look



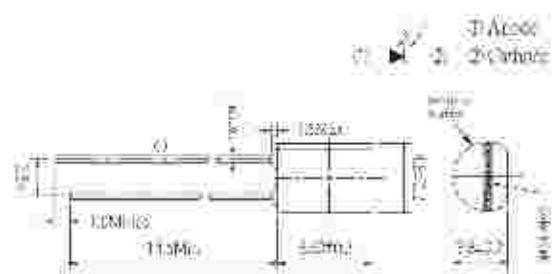
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_f Typ (mA)	BVR_Min (V)	I_D Max (mA)
PD439E	2.54±0.1E	840	10	22	30
PD4390-6C	2.54±0.1E	840	10	12	30



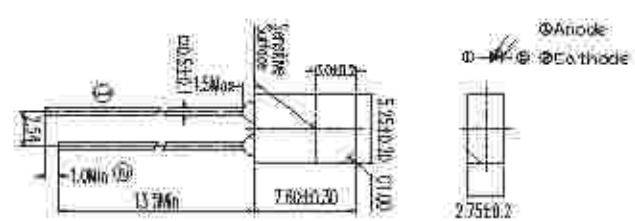
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_f Typ (mA)	BVR_Min (V)	I_D Max (mA)
PD439C	4.54±0.1E	840	10	10	30
PD4390-6C	2.54±0.1E	840	10	22	30



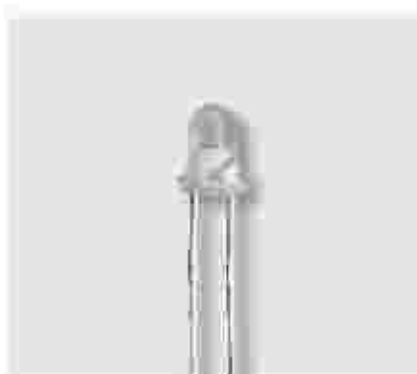
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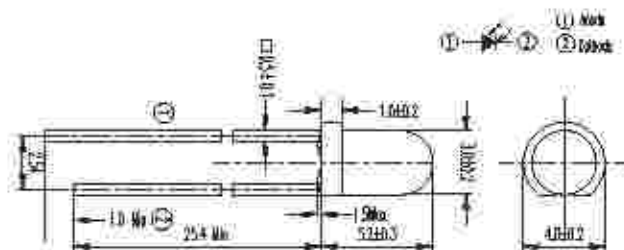
Product	Dimension (mm)	λ_c (nm)	I_f Typ (mA)	BVR_Min (V)	I_D Max (mA)
PD439E	5.24±0.1E	840	10	22	30

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Diode | Lamp



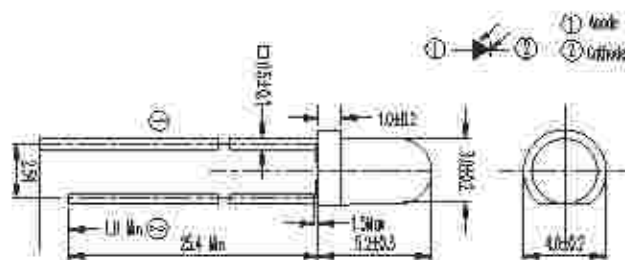
UNIT mm



Product	Dimension (mm)	λ_c (nm)	I_{c_TYP} (μA)	BVR_Min (V)	IO_Max (mA)
PQ204-6C	9	850	8.5	52	10
PQ204-6CL3	9	850	10	52	10



UNIT mm

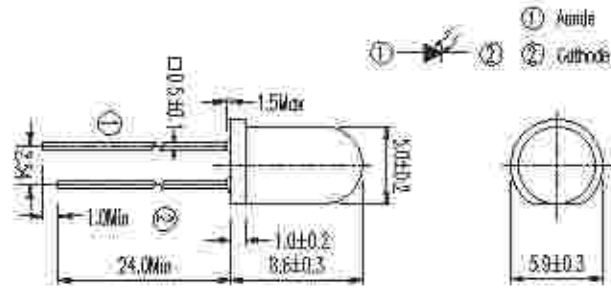


Product	Dimension (mm)	λ_c (nm)	I_{c_TYP} (μA)	BVR_Min (V)	IO_Max (mA)
PQ204-6B	9	850	9	52	10
PQ204-6BL3	9	850	8	52	10

Infrared LED and Silicon Detector | Photo Diode | Lamp



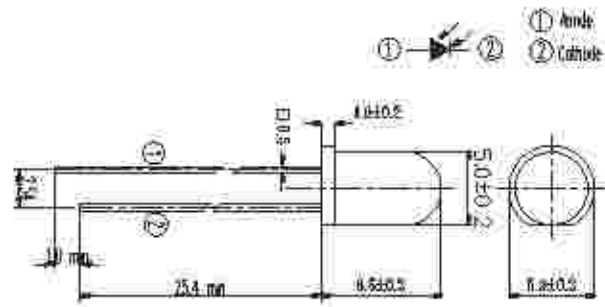
UNIT: mm



Product	Case size (mm)	λ_c (nm)	I_{f_Typ} (μA)	BVR_Min (V)	ID_Max (mA)
PD339-30A.T89	±	940	30	30	10
PD339-30A.ML2	±	940	30	30	30
PD339-30A.ML1	±	940	30	30	10



UNIT: mm



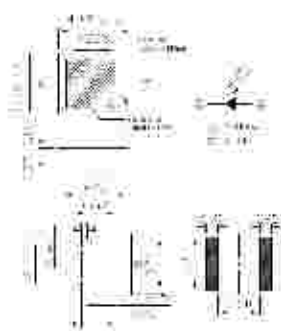
Product	Case size (mm)	λ_c (nm)	I_{f_Typ} (μA)	BVR_Min (V)	ID_Max (mA)
PD339-30C1	±	940	Min: 15	30	30
PD339-30ML2	±	940	30	30	30
PD339-30C2	±	940	Min: 10	30	10
PD339-30ML1	±	940	30	30	10
PD339-30BMS.2	±	940	30	30	30

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Diode | SMD



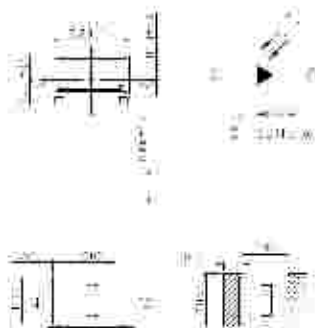
UNIT: mm



Product	Dimension (mm)	λ_d (nm)	I_{fmin} (μ A)	I_{fTP} (μ A)	B_{λ} (V)
PD44-370-LZENTRE	4.4x4.5 Tx1.65	890(810-1100)	1(R) 20 (R) 24 (G) 20	1(R) 40 (R) 30 (G) 20	0.2



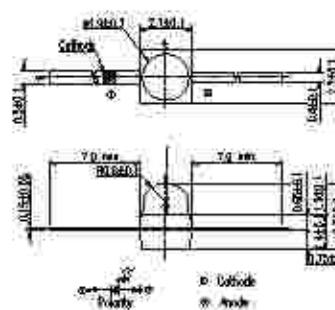
UNIT: mm



Product	Dimension (mm)	λ_d (nm)	I_{fmin} (μ A)	I_{fTP} (μ A)	B_{λ} (V)
B-PD3223ENCT4L17110V3T	3.2x2.5x1.6	850(810-1100)	(R) 5 (R) 10 (G) 11	(R) 14 (R) 8 (G) 13	0.2



UNIT: mm

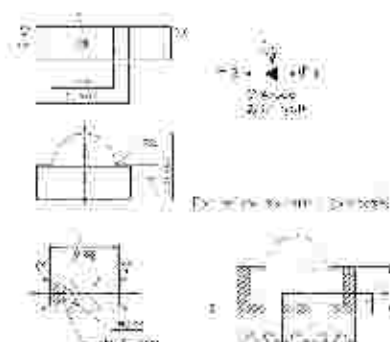


Product	Dimension (mm)	λ_d (nm)	I_{fmin} (μ A)	I_{fTP} (μ A)	B_{λ} (V)
PD55-215/TR-10	2.5x2x2.1	850	1	4	0.2

Infrared LED and Silicon Detector | Photo Diode | SMD



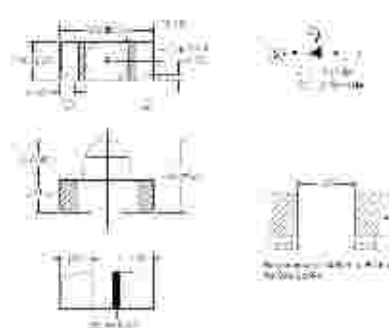
UNIT : mm



Product	Dimension (mm)	λ_d (nm)	I_{min} (μA)	I_{typ} (μA)	B_w (V)
PD10-216/TR9	3.0x1.0x2.0	850	0.7	1.5	30



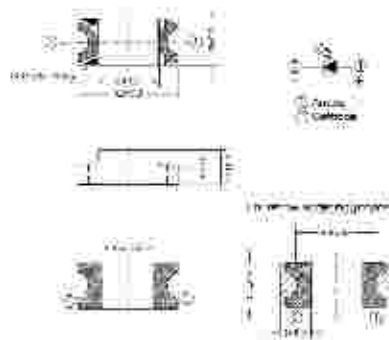
UNIT : mm



Product	Dimension (mm)	λ_d (nm)	I_{min} (μA)	I_{typ} (μA)	B_w (V)
PD05-716/TR9	3.0x1.5x2.0	850	0.7	2	30



UNIT : mm

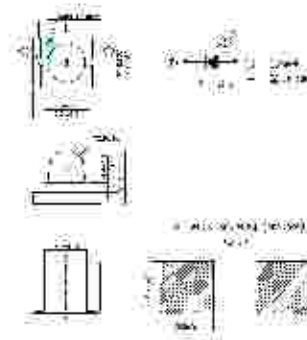


Product	Dimension (mm)	λ_d (nm)	I_{min} (μA)	I_{typ} (μA)	B_w (V)
PD15-216/TR9	5.2x1.5x1.1	850	0.2	0.8	30

Infrared LED and Silicon Detector | Photo-Diode | SMD



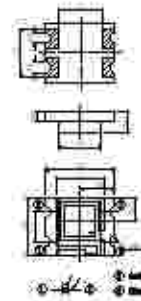
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fmin} (μ A)	I_{fSp} (μ A)	B_w (V)
PD10-210TR8	3.2x2.6x0.5	910	2	5	32



UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fmin} (μ A)	I_{fSp} (μ A)	B_w (V)
PD15-220TR8	3.2x2.7x0.5	940	2	10	32

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Diode | SMD



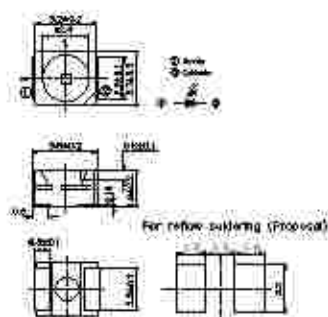
UNIT : mm



Product	Dimension (mm)	λ_c (nm)	I_{c_min} (μ A)	I_{c_typ} (μ A)	B_{vd} (V)
F1202-018LS10220	4.2x2.8x3.3	850	20	25	25



UNIT : mm

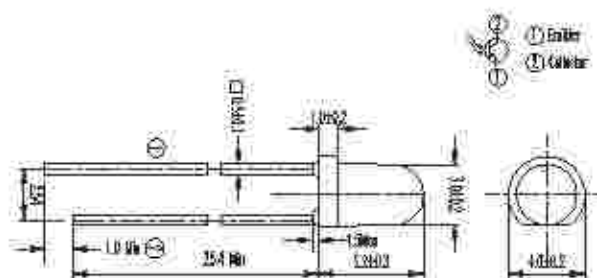


Product	Dimension (mm)	λ_c (nm)	I_{c_min} (μ A)	I_{c_typ} (μ A)	B_{vd} (V)
F1207-018ST09	3.5x2.7x1.8	900	1	1.05	32

Infrared LED and Silicon Detector | Photo Transistor | Lamp



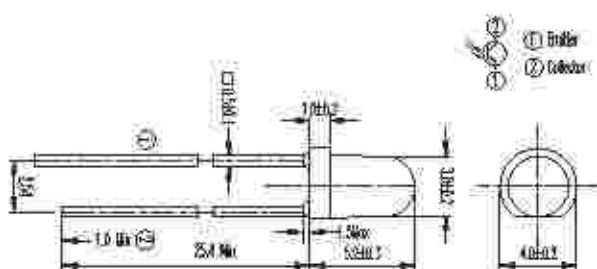
UNIT : mm



Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ S)	$V_{Forward_Max}$ (V)	$I_{Forward_Typ}$ (mA)
PT20-450	3	840	15/15	0.4	2



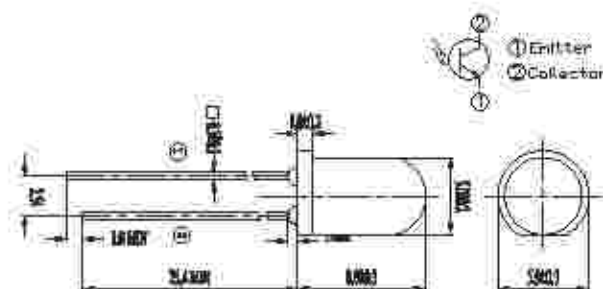
UNIT : mm



Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ S)	$V_{Forward_Max}$ (V)	$I_{Forward_Typ}$ (mA)
PT20-450	3	840	15/15	0.4	2



UNIT : mm

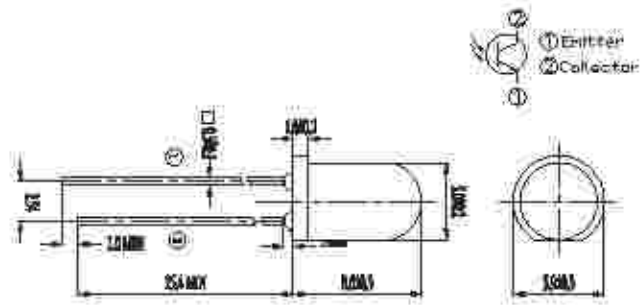


Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ S)	$V_{Forward_Max}$ (V)	$I_{Forward_Typ}$ (mA)
PT30-530	3	840	15/15	0.4	4

Infrared LED and Silicon Detector | Photo Transistor | Lamp



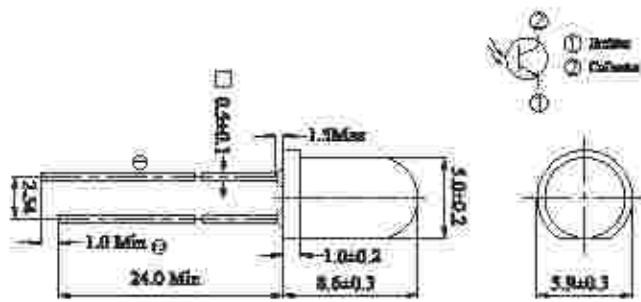
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ s)	$V_{forward_Max}$ (V)	$I_{forward_Typ}$ (mA)
PT33-3B	5	840	15/15	0.4	3



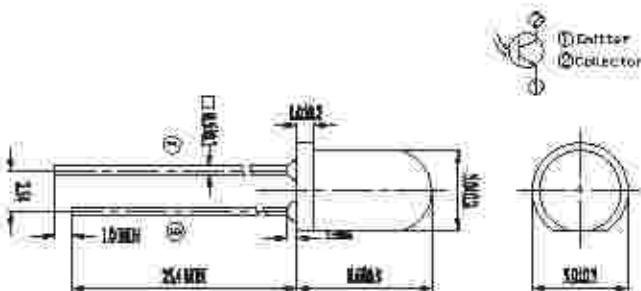
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ s)	$V_{forward_Max}$ (V)	$I_{forward_Typ}$ (mA)
PT3M-3C	5	850	25/15	0.4	2.5



UNIT: mm



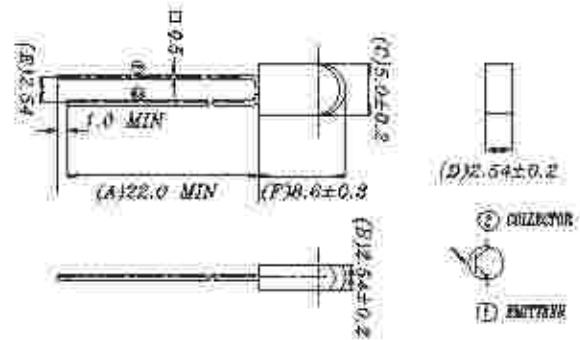
Product	Dimension (mm)	λ_c (nm)	Rise / Fall Time (μ s)	$V_{forward_Max}$ (V)	$I_{forward_Typ}$ (mA)
PT3M-3E	5	840	15/15	0.4	3

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Transistor | Lamp



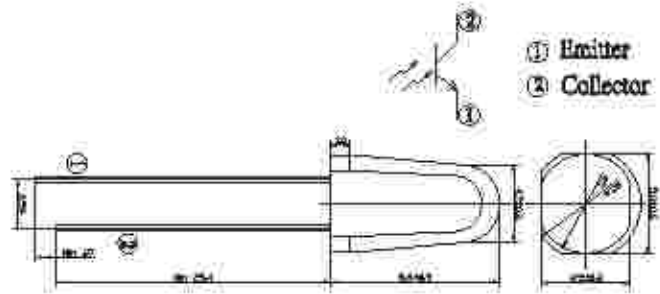
UNIT: mm



Product	Dimension (mm)	λ_d (nm)	Rise / Fall Time (μ s)	$V_{CE(sat)}$ Max (V)	I_{COIL_TYP} (mA)
PT234-5B	±	880	15/5	0.4	12



UNIT: mm

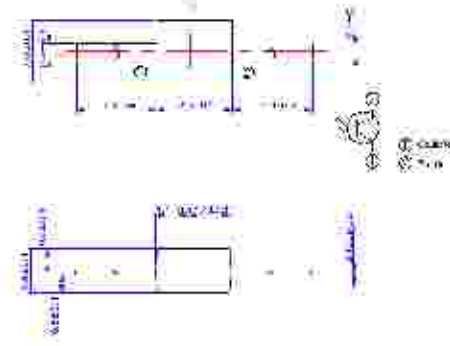


Product	Dimension (mm)	λ_d (nm)	Rise / Fall Time (μ s)	$V_{CE(sat)}$ Max (V)	I_{COIL_TYP} (mA)
PT1103-6B	±	880	15/5	0.4	4

Infrared LED and Silicon Detector | Photo Transistor | SMD



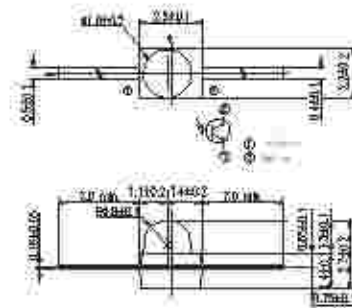
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
PT26-218	2.5x2.0x1.4	840	0.1	0.3	0.4



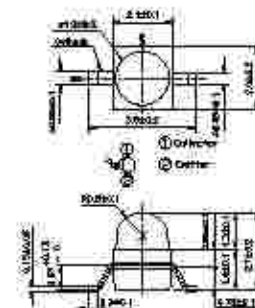
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
PT191-218A/369/1R110	2.5x2.0x2.7	840	2.5	4.5	0.4



UNIT: mm



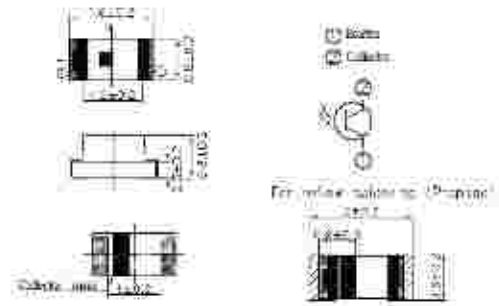
Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
PT195-21C/1R7	2.1x2.0x2.7	840	1	1.5	0.4

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Transistor | SMD



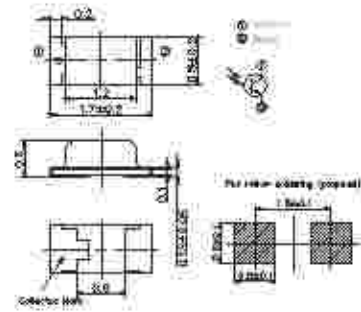
UNIT: mm



Product	Dimension (mm)	λ_s (nm)	I_{fwd_MIN} (mA)	I_{fwd_TYP} (mA)	V_{fwd_MAX} (V)
PT15-2106A/TRE	1.7x0.8x0.8	840	0.2	0.6	0.6



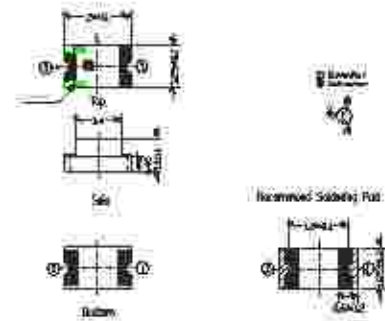
UNIT: mm



Product	Dimension (mm)	λ_s (nm)	I_{fwd_MIN} (mA)	I_{fwd_TYP} (mA)	V_{fwd_MAX} (V)
PT15-2106A/TRE	1.7x0.8x0.8	840	0.2	0.6	0.6



UNIT: mm

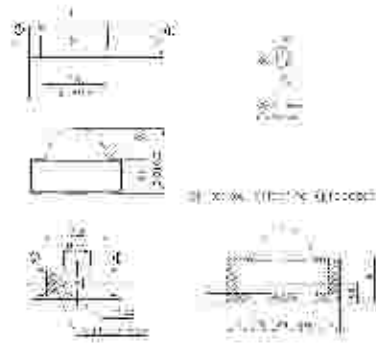


Product	Dimension (mm)	λ_s (nm)	I_{fwd_MIN} (mA)	I_{fwd_TYP} (mA)	V_{fwd_MAX} (V)
PT17-2106A/TRE	2.2x1.25x1.0	840	0.5	1	0.6

Infrared LED and Silicon Detector | Photo Transistor | SMD



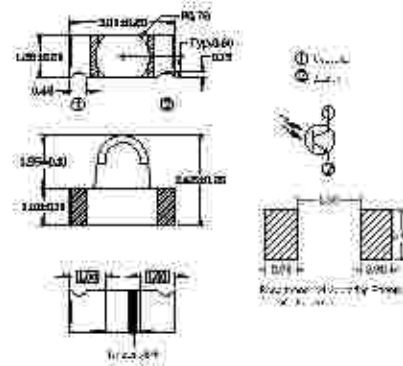
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
P112-210/TR8	2.0x1.0x0.8	840	0.2	1.50	0.8



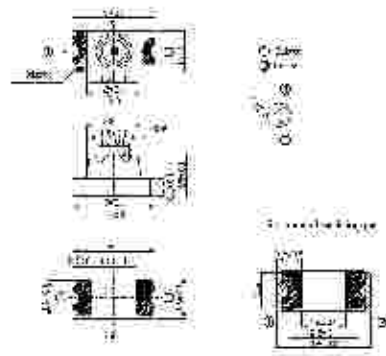
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
P112G-518/TR8	2.0x1.2x1.0	840	1.77	3	0.8



UNIT: mm



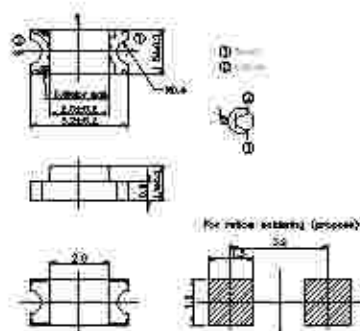
Product	Dimension (mm)	λ_c (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
P111-214CLA1/TR8	2.0x1.0x1.0	840	0.2	0.3	0.8

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Transistor | SMD



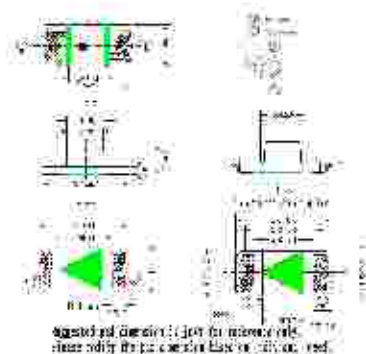
UNIT : mm



Product	Dimension (mm)	A_L (mm)	I_{F-MIN} (mA)	I_{F-TYP} (mA)	V_{F-MIN} (V)
PT15218/RE	3.2x1.5x1.1	0.40	0.1	0.3	0.4



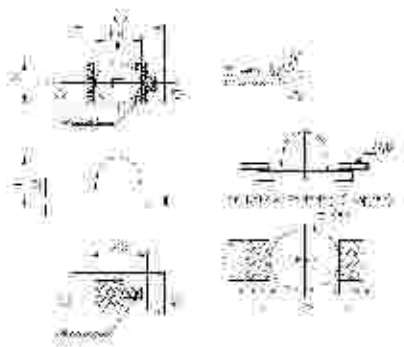
UNIT : mm



Product	Dimension (mm)	A_L (mm)	I_{F-MIN} (mA)	I_{F-TYP} (mA)	V_{F-MIN} (V)
PT23218/RE	3.2x1.5x1.1	0.40	0.1	0.30	0.4



UNIT : mm

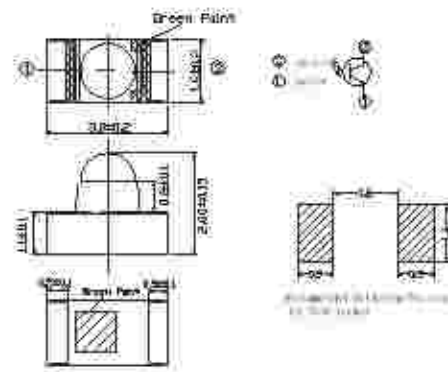


Product	Dimension (mm)	A_L (mm)	I_{F-MIN} (mA)	I_{F-TYP} (mA)	V_{F-MIN} (V)
PT2821G/RE	3.2x1.5x1.1	0.40	0.2	0.5	0.4

Infrared LED and Silicon Detector | Photo Transistor | SMD



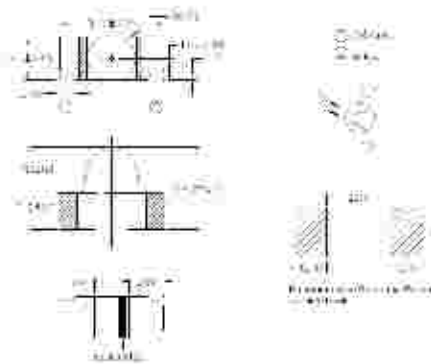
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	$I_{fwd} Min$ (mA)	$I_{fwd} Typ$ (mA)	$V_{fwd} Max$ (V)
PT26-518/TTR	3.2x1.9x0.8	840	0.1	1	0.4



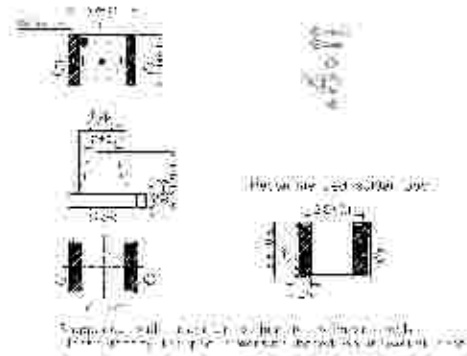
UNIT: mm



Product	Dimension (mm)	λ_c (nm)	$I_{fwd} Min$ (mA)	$I_{fwd} Typ$ (mA)	$V_{fwd} Max$ (V)
PT26-718/TRE	3.2x1.6x0.8	840	1.14	3	0.4



UNIT: mm



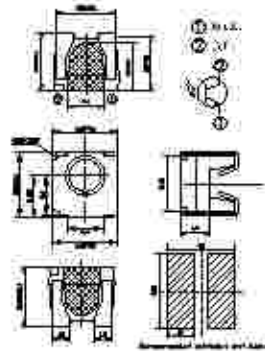
Product	Dimension (mm)	λ_c (nm)	$I_{fwd} Min$ (mA)	$I_{fwd} Typ$ (mA)	$V_{fwd} Max$ (V)
PT26-218/TRE	3.2x1.6x0.8	840	1.77	3	0.4

Infrared LED and Silicon Detector

Infrared LED and Silicon Detector | Photo Transistor | SMD



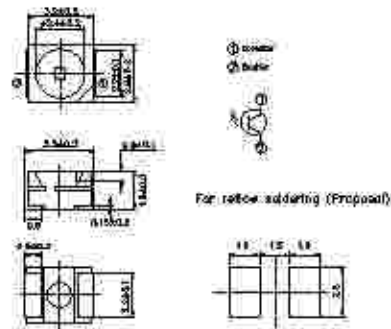
UNIT: mm



Product	Dimension (mm)	λ_p (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
PTST23B/T23E	4.2x3.9x3.3	850	0.4	0.8	0.4



UNIT: mm

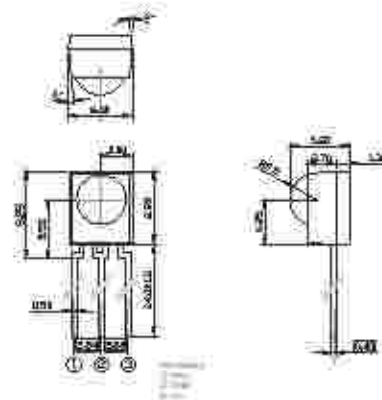


Product	Dimension (mm)	λ_p (nm)	I_{fwd_Min} (mA)	I_{fwd_Typ} (mA)	V_{fwd_Max} (V)
PTST23C/S43T23B	3.5x2.7x1.8	850	0.3	1	0.6

Infrared Receiver Module ■ IRM-Dip series



UNIT mm

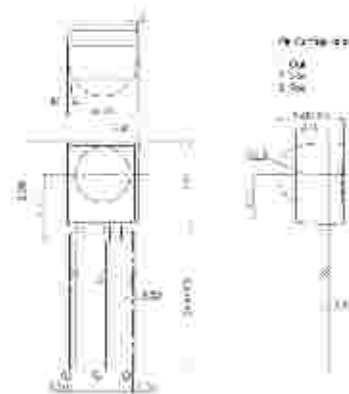


IRM-36xx (Vout-GND-Vcc)

Product	Dimension (mm)	Supply Voltage(V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range L.O Typ (m)	Half viewing angle Horizontal Typ (degree)	Reception Range L45 Typ (m)
IRM-36xJ2	8.25x6.0x5.5	2.7-5.5	382800	0.4	20	±45	10
IRM-36xJ7	8.25x6.0x5.5	2.7-5.5	382800	0.42	20	±45	10
IRM-36xJ8	8.25x6.0x5.5	2.7-5.5	382800	0.4	20	±45	10
IRM-36xJ9	8.25x6.0x5.5	4.5-5.5	382800	0.4	20	±45	10
IRM-36xJ11	8.25x6.0x5.5	2.7-5.5	382800	0.5	20	±45	10
IRM-36xJ12	8.25x6.0x5.5	2.7-5.5	382800	0.55	20	±45	10
IRM-36xJ15	8.25x6.0x5.5	2.7-5.5	382800	0.28	15	±45	10
IRM-36xJ16	8.25x6.0x5.5	2.7-5.5	382800	0.25	20	±45	10
IRM-36xJ7F	8.25x6.0x5.5	2.7-5.5	382800	0.39	15	±45	7
IRM-36xJ1W	8.25x6.0x5.5	2.7-5.5	382800	0.3	-	±45	2



UNIT mm



IRM-35xx (Vout-Vcc-GND)

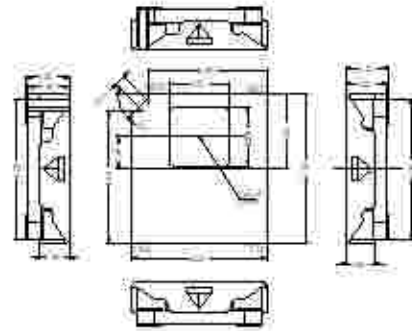
Product	Dimension (mm)	Supply Voltage(V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range L.O Typ (m)	Half viewing angle Horizontal Typ (degree)	Reception Range L45 Typ (m)
IRM-35xJ12	8.25x6.0x5.5	2.7-5.5	382800	0.28	20	±45	10
IRM-35xJ15	8.25x6.0x5.5	2.7-5.5	382800	0.27	20	±45	10

Infrared Receiver Module

Infrared Receiver Module ■ IRM-SMD series



UNIT: mm

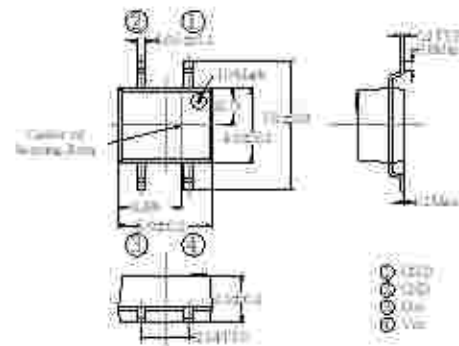


IRM-H2xx

Product	Dimension W×H×D (mm)	Supply Voltage (V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range Ld Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 typ. (m)
IRM-H2002TR2	E-10x1.45x0.80	2.7-5.5	3938KHz	0.4	14	±40	7
IRM-H2004TR2	E-10x1.45x0.80	2.7-5.5	5638KHz	0.22	14	±40	7
IRM-H2000WTR2	E-10x1.45x0.80	2.7-5.5	20-30K	0.3	100 ±	±40	100 ±



UNIT: mm



IRM-H19xx

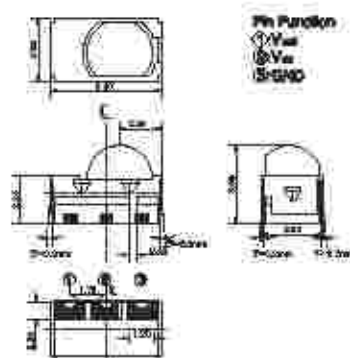
Product	Dimension W×H×D (mm)	Supply Voltage (V)	Carrier Freq. (KHz)	Supply Current Typ. (mA)	Reception Range Ld Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 typ. (m)
IRM-H19022TR2	E-10x2.50x1.00	2.7-5.5	2928KHz	0.4	100 ±	±40	100 ±
IRM-H19042TR2	E-10x2.50x1.00	2.7-5.5	3938KHz	0.22	14	±40	7
IRM-H19015TR2	E-10x2.50x1.00	2.7-5.5	2928KHz	0.23	14	±40	7

Infrared Receiver Module

Infrared Receiver Module ■ IRM-SMD series



UNIT : mm

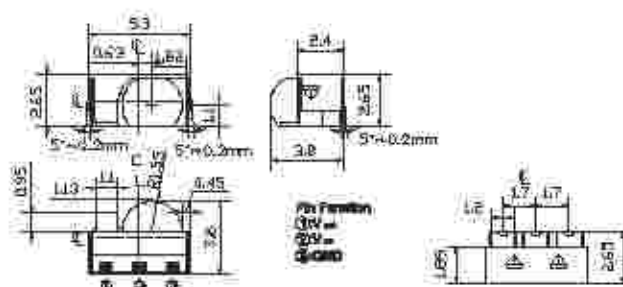


IRM-H5xx

Product	Dimension W×H×D (mm)	Supply voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range L0 Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 Typ. (m)
IRM-H5xx14TR1	3.3x4.55x2.5	1.7-5.5	3770±2%	0.27	4	45°	7
IRM-H5xx23STR1	3.3x4.55x2.5	1.7-5.5	450±2%	0.28	4	45°	1



UNIT : mm



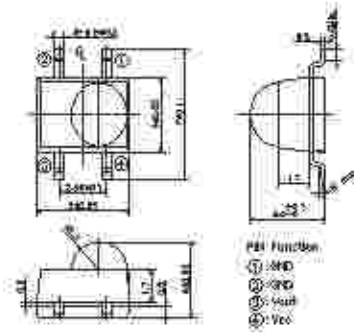
IRM-V5xx

Product	Dimension W×H×D (mm)	Supply voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range L0 Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 Typ. (m)
IRM-V5xx14STR1	3.3x2.55x1.8	1.7-5.5	3920±2%	0.27	4	45°	7
IRM-V5xx15TR1	3.3x2.55x1.8	1.7-5.5	360±2%	0.28	4	45°	1
IRM-V5xx15TR1	3.3x2.55x1.8	1.7-5.5	3770±2%	0.27	4	45°	1

Infrared Receiver Module ■ IRM-SMD series



UNIT: mm

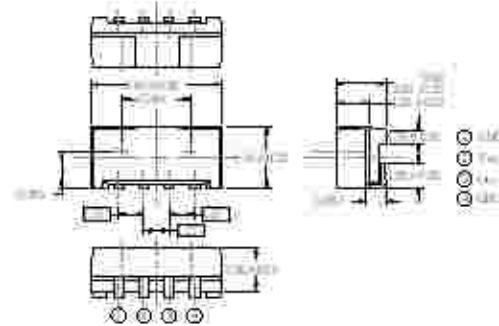


IRM-H6xx

Product	Dimension (W×H×D (mm))	Supply Voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range Ld Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 Typ. (m)
IRM-H6xJ77TR2	5.00×4.00×4.00	2.7-5.5	3938	0.45	10	±45	10
IRM-H6xJ116TR2	5.00×4.00×4.00	2.7-5.5	36084708	0.25	10	±45	10
IRM-H6xJ151TR2	5.00×4.00×4.00	2.7-5.5	357800	0.25	10	±45	10
IRM-H6xJ192TR2	5.00×4.00×4.00	2.7-5.5	3608480	0.25	10	±45	10



UNIT: mm



IRM-H3xx

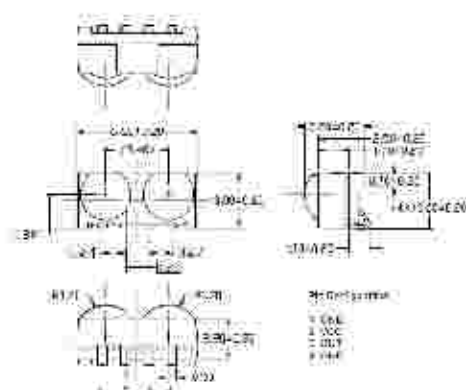
Product	Dimension (W×H×D (mm))	Supply Voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range Ld Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L45 Typ. (m)
IRM-H3xJ181TR2	5.00×4.00×2.50	2.7-5.5	36084708	0.27	14	±45	7

Infrared Receiver Module

Infrared Receiver Module ■ IRM-SMD series



UNIT : mm

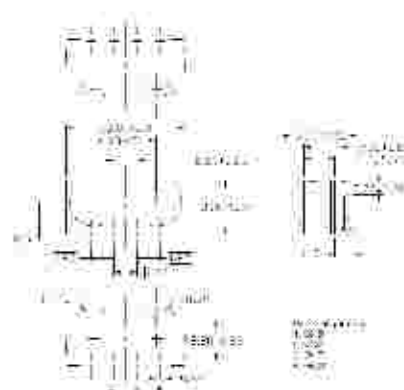


IRM-V8xx

Product	Dimension W×H×B (mm)	Supply Voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range LD Typ. (m)	Half Viewing angle Typ. (degree)	Reception Range L45 typ. (m)
IRM-V8xJ12-S7TR1	5.50x3.10x3.20	1.2-5.5	363840	0.45	30	±45	10
IRM-V8xJ14-S7TR1	4.50x3.50x3.20	1.2-5.5	363840	0.21	30	±45	10
IRM-V8xJ15-S7TR1	5.50x3.10x3.20	1.2-5.5	363840	0.23	30	±45	10
IRM-V8xJ15-S7TR1	5.50x3.50x3.20	1.2-5.5	363840	0.21	30	±45	10
IRM-V80JW2-S7TR1	5.50x3.00x3.20	1.2-5.5	120-60	0.27	3000-5	±45	3000-2



UNIT : mm



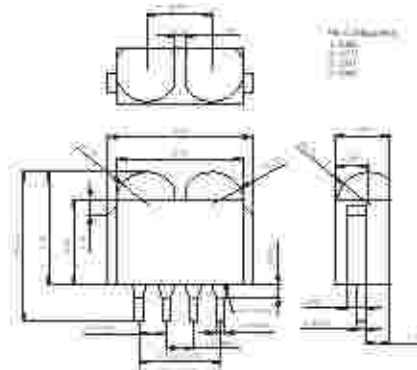
IRM-HBxx-C

Product	Dimension W×H×B (mm)	Supply Voltage (V)	Carrier Freq. (kHz)	Supply Current Typ. (mA)	Reception Range LD Typ. (m)	Half Viewing angle Typ. (degree)	Reception Range L45 typ. (m)
IRM-HBxJ14-C-S7TR2	5.50x3.25x3.00	1.2-5.5	363840/50	0.27	30	±45	10
IRM-HBxJ15-C-S7TR2	5.50x3.25x3.00	1.2-5.5	363840	0.23	30	±45	10
IRM-HBxJ15-C-S7TR2	5.50x3.25x3.00	1.2-5.5	363840	0.27	30	±45	10

Infrared Receiver Module | IRM-SMD series



UNIT: mm

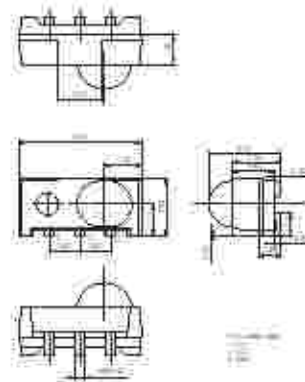


IRM-V11xx

Product	Dimension (mm)	Supply Voltage (V)	Carrier Freq (kHz)	Supply Current Typ. (mA)	Reception Range L ₀ Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L ₄₅ typ. (m)
IRM-V110U16TR1	3.30x2.30x5.30	2.7-5.5	363640	0.21	10	±45	10



UNIT: mm



IRM-V16xx

Product	Dimension (mm)	Supply Voltage (V)	Carrier Freq (kHz)	Supply Current Typ. (mA)	Reception Range L ₀ Typ. (m)	Half viewing angle Typ. (degree)	Reception Range L ₄₅ typ. (m)
IRM-V160U16TR1	2.25x3.80x5.26	2-3.5	363640	0.21	18	±45	7



UNIT: mm



IRM-HQxx (QFN Package)

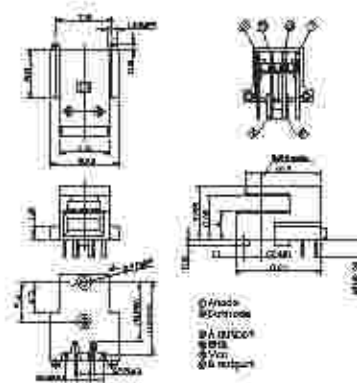
Product	Dimension (mm)	Supply Voltage (V)	Carrier Freq (kHz)	Supply Current Typ. (mA)	Reception Range L ₀ Typ. (m)	Half Viewing angle Typ. (degree)	Reception Range L ₄₅ typ. (m)
IRM-HQ0U16TR2	3.45x3.80x4.45	2.7-5.5	363640	0.21	18	±45	14

Infrared Receiver Module

Optical Switch | Encoder



UNIT: mm

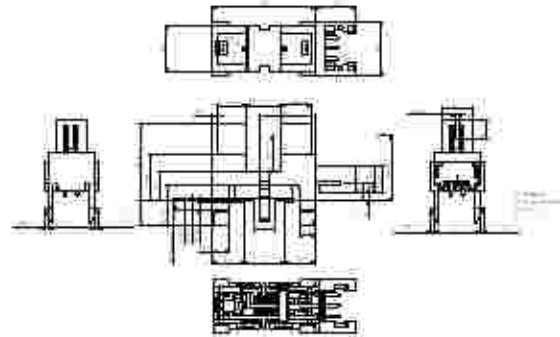


Product	Dimension LxWxH (mm)	Gap Distance (mm)	Supply voltage (V)	Resolution (LPI)	VF_TYP (V)
ECD04T0204P7B	5.6x12.9x7.55	2	2.2~5.5	150000	1.6

Optical Switch | Transmissive Type



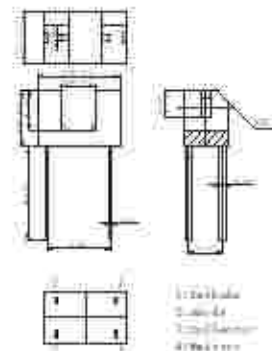
UNIT: mm



Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _C _Typ (V)	V _C _Max (V)	V _{forward} _Max (V)	I _{forward} _Min (mA)	I _{forward} _Max (mA)
ITR1001C1504V7B	25.8x12.9x7.5	2	1.6	4.4	3.4	0.25	400



UNIT: mm



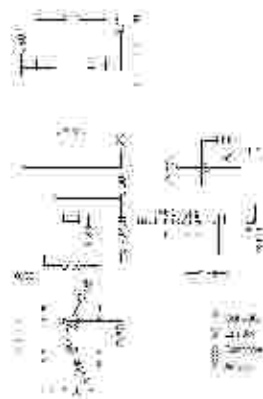
Product	Dimension DIP: LxHxW SMD: LxWxH (mm)	Gap Distance (mm)	V _C _Typ (V)	V _C _Max (V)	V _{forward} _Max (V)	I _{forward} _Min (mA)	I _{forward} _Max (mA)
ITR210301204V7B	4.9x12.5x3.3	2	-	1.8	3.4	0.08	100

Optical Switch

Optical Switch | Transmissive Type



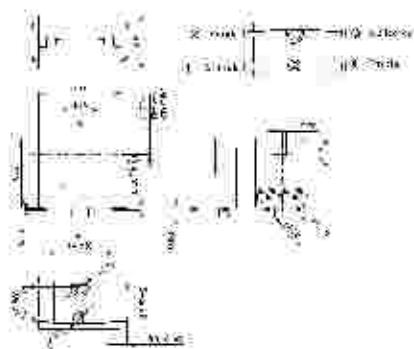
UNIT: mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_f Typ (V)	V_f Max (V)	$V_{forward_Max}$ (V)	$I_{forward_Min}$ (mA)	$I_{forward_Max}$ (mA)
YTE23002	6.4x4.3x4	3	1.25	1.5	0.4	0.2	100



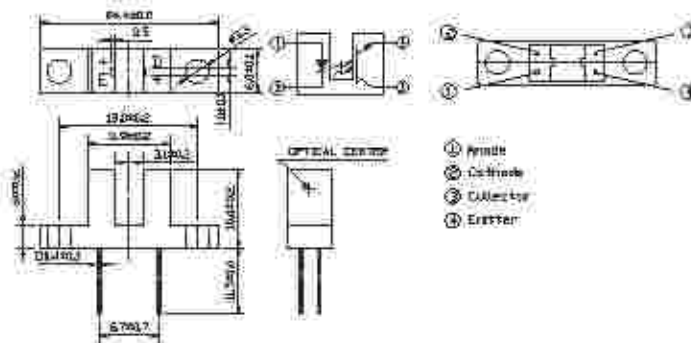
UNIT: mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_f Typ (V)	V_f Max (V)	$V_{forward_Max}$ (V)	$I_{forward_Min}$ (mA)	$I_{forward_Max}$ (mA)
YTE23005T3047R	6.4x4.3x4	3	1.25	1.5	0.4	0.2	100



UNIT: mm

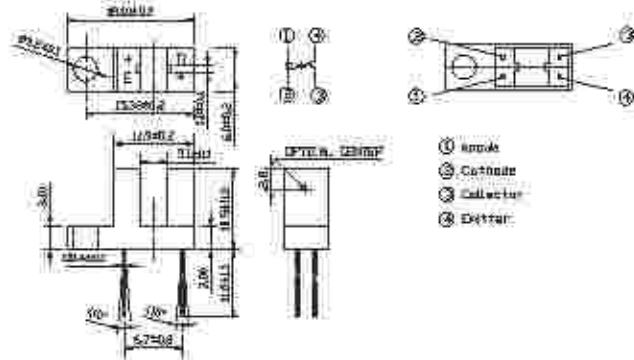


Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_f Typ (V)	V_f Max (V)	$V_{forward_Max}$ (V)	$I_{forward_Min}$ (mA)	$I_{forward_Max}$ (mA)
ITR3102	24.4x5.0x12.4	2.1	1.25	1.5	0.4	0.5	100

Optical Switch | Transmissive Type



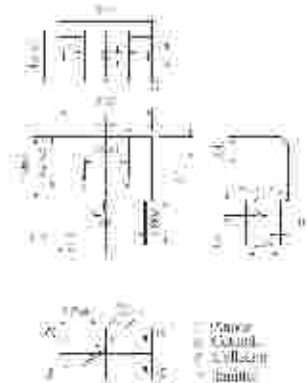
UNIT : mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{forward_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
YTR2504	11.1x5.0x10.5	2.1	1.2	1.5	0.4	0.3	100



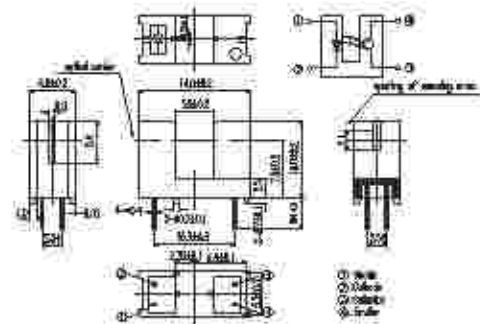
UNIT : mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{forward_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
YTR2507	8.2x4.3x5.2	4	1.2	1.5	0.4	0.2	100



UNIT : mm

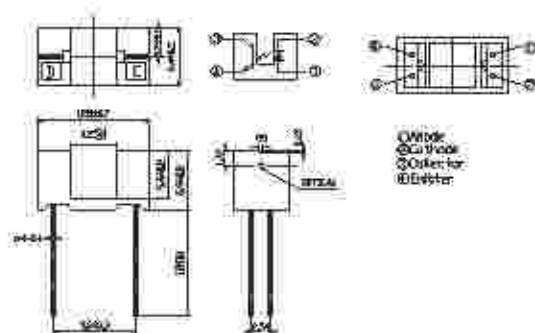


Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{forward_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
YTR2508-F	8.5x5.0x10.5	5.0	1.2	1.5	0.4	0.2	100

Optical Switch | Transmissive Type



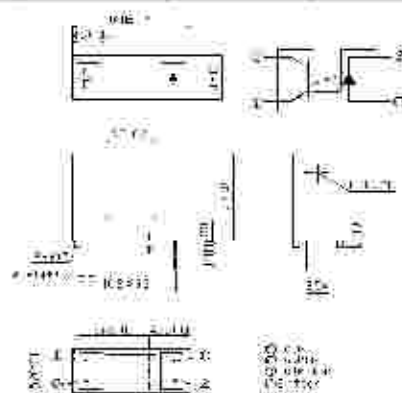
UNIT : mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V _{CE_Typ} (V)	V _{CE_Max} (V)	V _{Collector_Min} (V)	I _{Collector_Min} (mA)	I _{Collector_Max} (mA)
IT93707	12.9x4.5x1.5	1.2	1.2	1.5	0.4	0.5	100



UNIT : mm

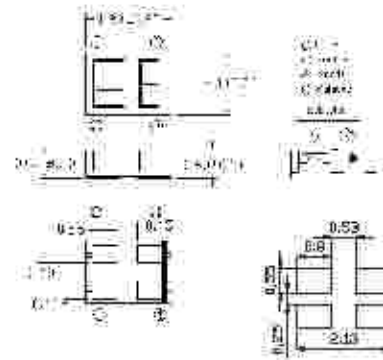


Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Gap Distance (mm)	V _{CE_Typ} (V)	V _{CE_Max} (V)	V _{Collector_Min} (V)	I _{Collector_Min} (mA)	I _{Collector_Max} (mA)
IT934024-A	7.6x2.5x1.5	0.4	1.2	1.5	0.4	0.5	100

Optical Switch | Reflective Type



UNIT : mm

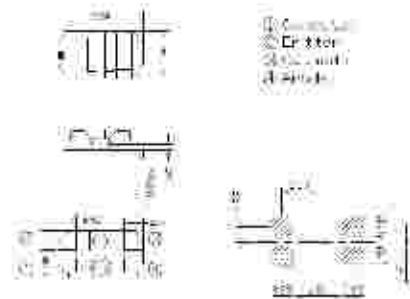


(Dimensions are in millimeter)

Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{F_Typ} (V)	V_{F_Max} (V)	$V_{Reverse_Max}$ (V)	I_{Fwd_Min} (mA)	I_{Fwd_Max} (mA)
ITR2001BR10A/TR	1.3x1.4x0.25	0.7	1.25	1.5	NA	0.05	100



UNIT : mm

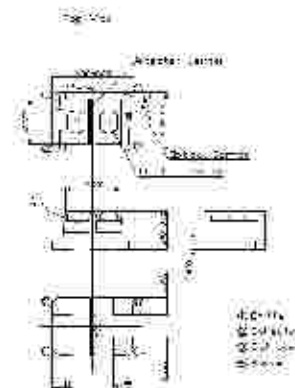


(Dimensions are in millimeter)

Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{F_Typ} (V)	V_{F_Max} (V)	$V_{Reverse_Max}$ (V)	I_{Fwd_Min} (mA)	I_{Fwd_Max} (mA)
ITR2001BR10A/TR	2.3x1.7x1.1	1	1.25	1.5	NA	0.15	100



UNIT : mm

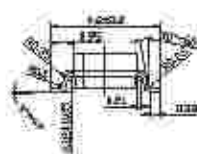
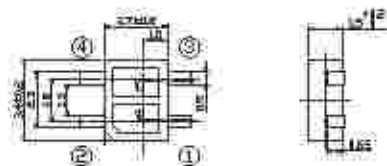


Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{F_Typ} (V)	V_{F_Max} (V)	$V_{Reverse_Max}$ (V)	I_{Fwd_Min} (mA)	I_{Fwd_Max} (mA)
ITR1001SR30A/TR	4.3x3.0x2.0	3.0	1.2	1.3	NA	0.05	100

Optical Switch | Reflective Type



UNIT : mm

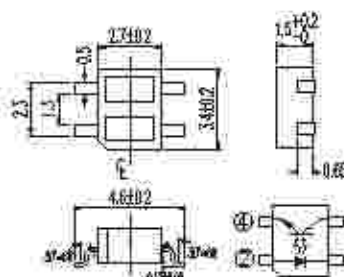


- ① CATHODE
- ② ANODE
- ③ COLLECTOR
- ④ EMITTER

Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_f _Typ (V)	V_f _Max (V)	$V_{forward_Max}$ (V)	I_{cath_Min} (mA)	I_{cath_Max} (mA)
ITR6007C1VTR5	4.5x3.4x1.5	1.2	1.2	1.6	0.4	0.18	100
ITR6007C1VTR5	4.5x3.4x1.5	0.8	1.2	1.6	0.4	0.18	100



UNIT : mm

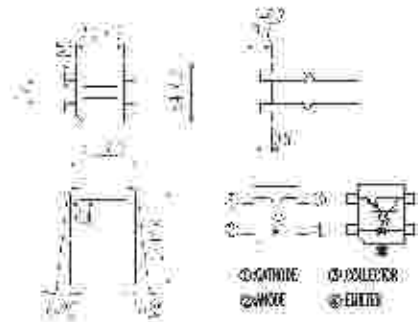


- ① CATHODE
- ② ANODE
- ③ COLLECTOR
- ④ EMITTER

Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_f _Typ (V)	V_f _Max (V)	$V_{forward_Max}$ (V)	I_{cath_Min} (mA)	I_{cath_Max} (mA)
ITR6007L3VTR5	4.5x3.4x1.5	0.8	1.2	1.6	1	0.5	100



UNIT : mm



- ① CATHODE
- ② ANODE
- ③ COLLECTOR
- ④ EMITTER

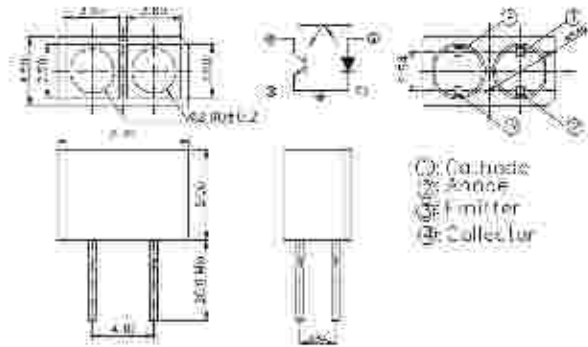
Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_f _Typ (V)	V_f _Max (V)	$V_{forward_Max}$ (V)	I_{cath_Min} (mA)	I_{cath_Max} (mA)
ITR6007F25	5.6x2.7x1.5	0.8	1.2	1.6	0.4	0.1	100
ITR6007L3VTR5	5.6x2.7x1.5	0.8	1.2	1.6	1.0	0.5	100

Optical Switch

Optical Switch | Reflective Type



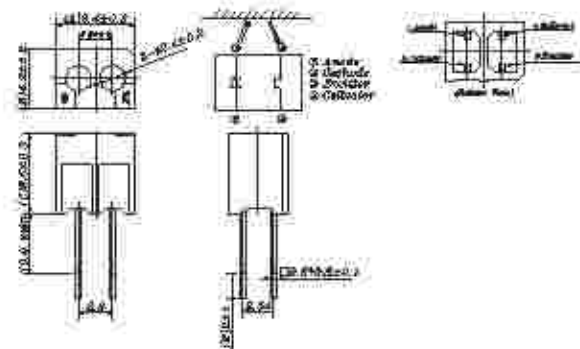
UNIT: mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{Emitter_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
ITR20009	8.7x4.2x5.2	>0	1.2	1.5	2.4	30	100



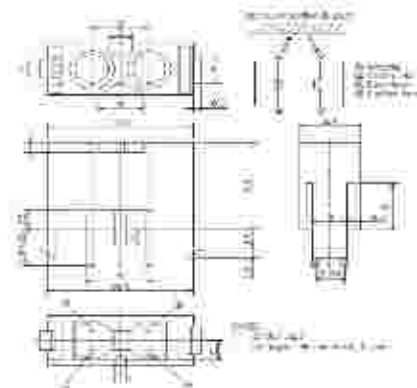
UNIT: mm



Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{Emitter_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
ITR20001/T	6.4x4.3x5.2	>0	1.2	1.5	2.4	30	100



UNIT: mm

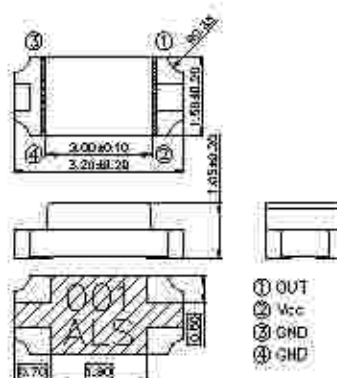


Product	Dimension DIP: LxWxH SMD: LxWxH (mm)	Reflective Distance (mm)	V_{f_Typ} (V)	V_{f_Max} (V)	$V_{Emitter_Max}$ (V)	I_{fwd_Min} (mA)	I_{fwd_Max} (mA)
ITR20010	12.5x4.5x5.2	>0	1.2	1.5	2.4	30	100

Optical Sensors | Ambient Light Sensor | Analog



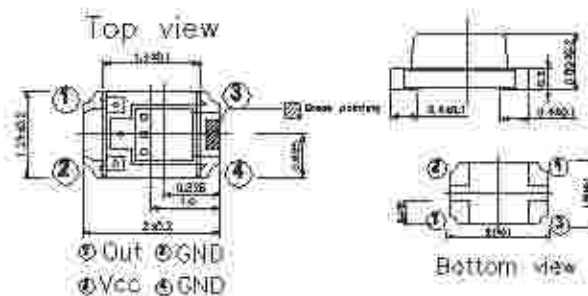
UNIT: mm



Product	Dimension (mm)	Supply voltage Vcc(V)	Peak Sensitivity Wavelength λp(nm)	Photo current Ev=100lux (ph)(μA)	Max. Dark Current ID_Max (μA)
ALN-PGD15-21 QLE2101TRH	3.2x1.5x1.1	2.5-5.5	830	35-95	0.1



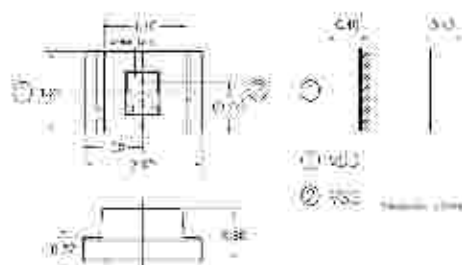
UNIT: mm



Product	Dimension (mm)	Supply voltage Vcc(V)	Peak Sensitivity Wavelength λp(nm)	Photo current Ev=100lux (ph)(μA)	Max. Dark Current ID_Max (μA)
ALN-PGD17-05C17E6	3x1.25x0.8	1.8-5.5	830	25-34	0.1



UNIT: mm

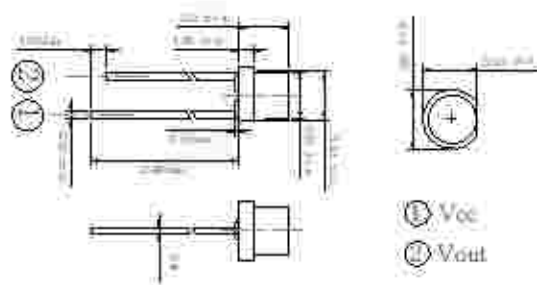


Product	Dimension (mm)	Supply Voltage Vcc(V)	Peak Sensitivity Wavelength λp(nm)	Photo current Ev=100lux (ph)(μA)	Max. Dark Current ID_Max (μA)
ALN-PGD17-05B17E6TRH	3x1.25x0.8	2-5.5	870	29-35	0.2

Optical Sensors | Ambient Light Sensor | Analog



UNIT : mm

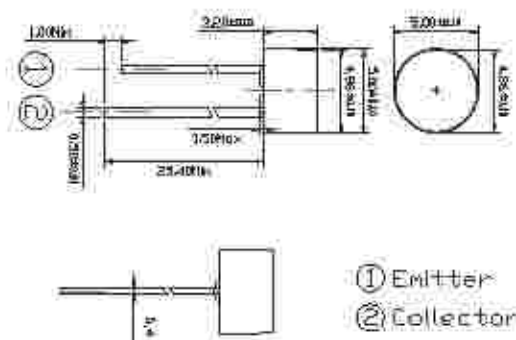


Product	Dimension (mm)	Supply Voltage Vcc(V)	Peak Sensitivity Wavelength (nm)	Photo current Ev=100lx (ph)(μ A)	Max. Dark Current I _{D_Max} (μ A)
ALS-P03114-3CA37B	3.6x3.5x3.2	1.8-5.5	850	22-44	0.1
ALS-P03114-3CA101	3.6x3.5x3.2	1.8-5.5	850	260-720	0.1

Optical Sensors



UNIT : mm

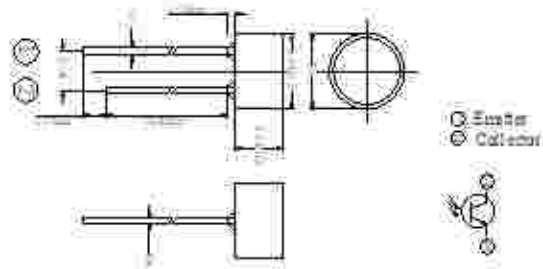


Product	Dimension (mm)	Supply Voltage Vcc(V)	Peak Sensitivity Wavelength (nm)	Photo current Ev=100lx (ph)(μ A)	Max. Dark Current I _{D_Max} (μ A)
ALS-P031243-3CA101	5.0x5.0x3.2	1.8-5.5	850	260-720	0.1

Optical Sensors | Ambient Light Sensor | Analog

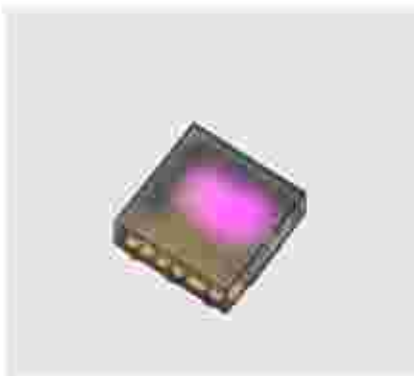


UNIT: mm

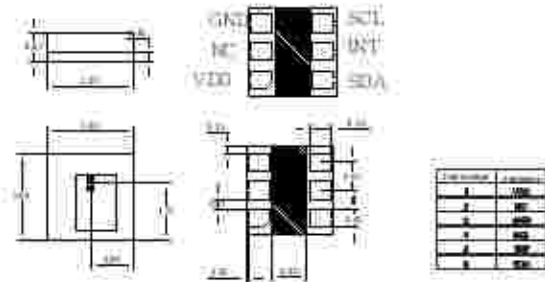


Product	Dimension (mm)	Supply Voltage: V _{DD} (V)	Peak Sensivity Wavelength: λp(nm)	Photo current EV=100lux (pA)	Max. Dark Current: I _{D_Max} (μA)
ALS-PD1024S-3B	5.345 x 3.2	1.8-2.8	850	10-25	0.1
ALS-PD1024S-3BML7-RE	5.345 x 3.2	2-3.0	850	7-24	0.05

Optical Sensors | Ambient Light Sensor | Digital



UNIT: mm

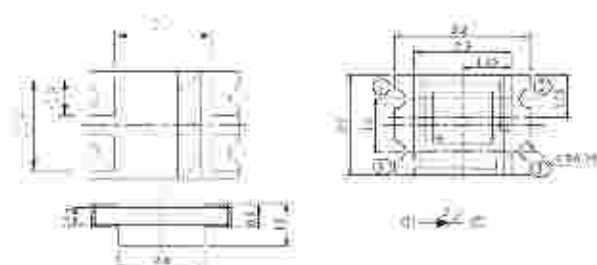


Product	Dimension (mm)	Supply Voltage: V _{DD} (V)	Supply Current: I _{DD} (μA)	Peak Sensivity Wavelength: λp(nm)	ALS-Photo output EV=100lux (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lux Resolution (μlx)
ALS-OP1024-7BCE7MBYTR0	2.00 x 2.00 x 0.85	2.4-3.0	100	850	CH1: 2050 CH2: 3000	1	10-12 bit	30000	0.0033

Optical Sensors | Color Sensor | Analog



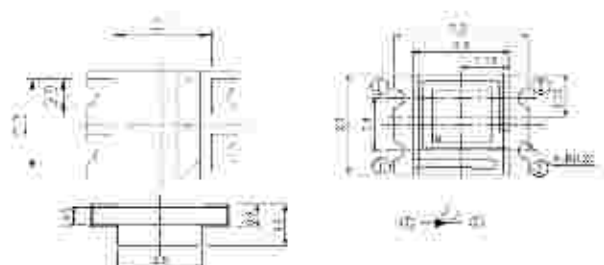
UNIT: mm



Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength(λ)(nm)	Reverse light current (Es=100lux), I(L/μA)
CLS15-220/L219M/TRH	3.20 7x1.1	0.5-1.3	820	0.091



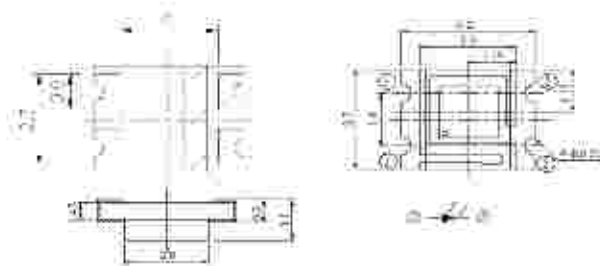
UNIT: mm



Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength(λ)(nm)	Reverse light current (Es=100lux), I(L/μA)
CLS15-220/L215M/TRH	3.20 7x1.1	0.5-1.3	850	0.082



UNIT: mm

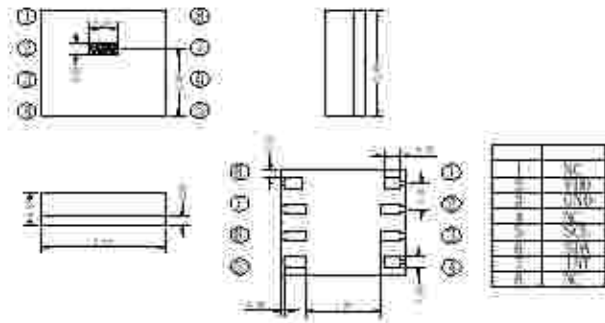


Product	Dimension (mm)	Forward Voltage(V)	Peak Sensitivity Wavelength(λ)(nm)	Reverse light current (Es=100lux), I(L/μA)
CLS15-220/L218M/TRH	3.20 7x1.1	0.5-1.3	870	0.085

Optical Sensors | Color Sensor | Digital



UNIT: mm



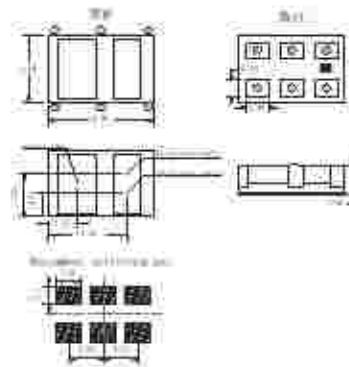
Product	Dimension (mm)	Supply Voltage VDD(V)	Peak Sensitivity Wavelength λp1 (nm)	Supply Current (µA)	On Photo Output (±20µW/cm ² count)	On Dark Output (count)	Maximum Detection Lib(Lux)
OLS-15003-4-40P8/150	3.00 x 3.00 x 0.50	2.4 ~ 2.8	630nm (G 550nm) 642nm (R, B, V)	IDD_ON = 210 IDD_OFF = 25	CH_Red 1500 CH_Green 2500 CH_Blue 2100 CICD_SELT=0 PGA_CLS=4+3E INT_TIME=15T CLECOTV=5(INT_TIME)	1	200
W-Q1521000-LS500-D-3P	3.00 x 3.00 x 0.50	2.4 ~ 2.8	630nm (G 550nm) 642nm (R, B, V)	IDD_ON = 220CH=1 IDD_ON = 220 (CCA) IDD_OFF = 11	CH_Red 1500 CH_Green 2500 CH_Blue 2100 EN_CLS=1, PGM=1 INT_TIME_BASE=2 TIME_DELAY=0, TIME_WAIT=0 TIME_CLS=4T Dark_CLS=MAX	2	200

Optical Sensors

Optical Sensors | skin sensor



UNIT: mm

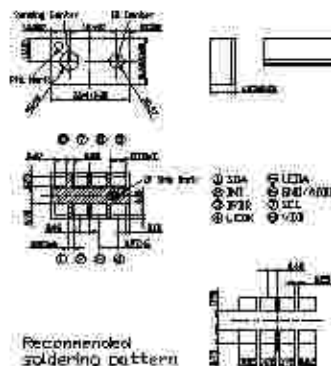


Product	Dimension (mm)	VF1_Typ(V)	Ap1_Typ(mm)	VF2_Typ(V)	Ap2_Typ(mm)
S-FM 1314B31L575-A-3R	1.30 x 4.00	1.32	1.00	0.85	1.00

Optical Sensors | Proximity Sensor | Digital



UNIT: mm

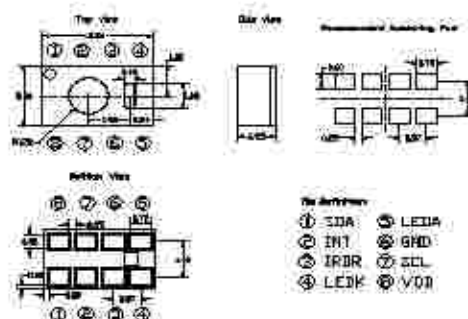


Product	Dimension (mm)	Supply Voltage (VDD(V))	Supply Current (IDD)(uA)	Peak Sensitivity Wavelength (nm)	ALS Photo Output Ev=100lx (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lin Resolution (lux)	Detection Range	PS ADC Resolution	Emitting Wavelength (nm)
APM1402K-310-0P8TR8	3.94x2.30H x 2.5 (Pitch: 2.0mm)	2.4 ~ 2.8	IDD_ON = 110 IDD_OFF = 2.5	850	CH0: 1250 CH1: 1340 Ev=100lx ALS gain: 4x, 16x, 64x, 256x, 1024x	1	10-15 bit	20000	0.0025	up to 10cm	8-12 bit	850nm

Optical Sensors



UNIT: mm

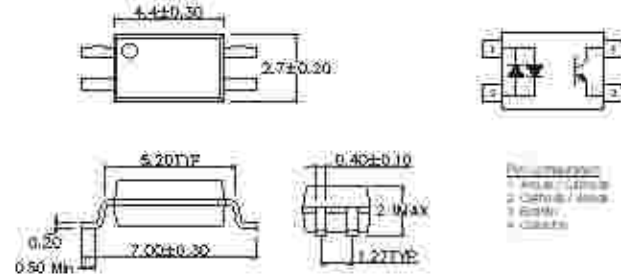


Product	Dimension (mm)	Supply Voltage (VDD(V))	Supply Current (IDD)(uA)	Peak Sensitivity Wavelength (nm)	ALS Photo Output Ev=100lx (count)	ALS Dark output (count)	ADC Resolution (bit)	Maximum Detection (lux)	Lin Resolution (lux)	Detection Range	PS ADC Resolution	Emitting Wavelength (nm)
APM1402K-310-0P8TR8	3.94x2.30H x 2.5 (Pitch: 2.0mm)	2.4 ~ 2.8	IDD_ON = 260 IDD_OFF = 2.5	850	CH0: 2540 CH1: 4380 Ev=100lx ALS gain: 2x, 4x, 16x, 64x, 256x, 1024x	1	10-15 bit	37000	0.0025	up to 10cm	8-12 bit	850nm

Photo Coupler | Photo Transistor | 4pin SSOP-AG



UNIT : mm

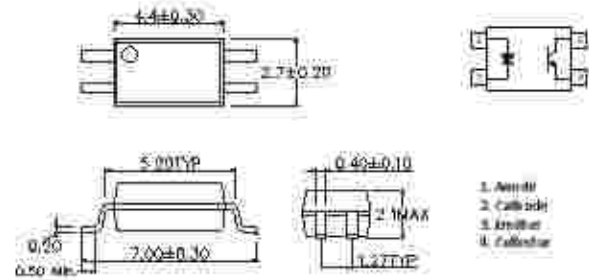


Product	Dimension (mm)	Feature	V _F (V)	BV _{COV} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (µs)	t _f (µs)	T _{case} (°C)	V _{ISO} (Vrms)
EL3H4G	4.4x2.7x2.1	High V _{CE}	1.2	80	0.2	4	20-300	-	-	-55-110	3700
EL3H4U-G	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C	1.2	80	0.4	0.5	20-600	-	-	-55-125	2700
EV3H4U-G	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C (AEC-Q101 Certified)	1.3	80	0.4	0.5	20-600	-	-	-55-125	2750

Photo Coupler | Photo Transistor | 4Pin SSOP-DG



UNIT : mm



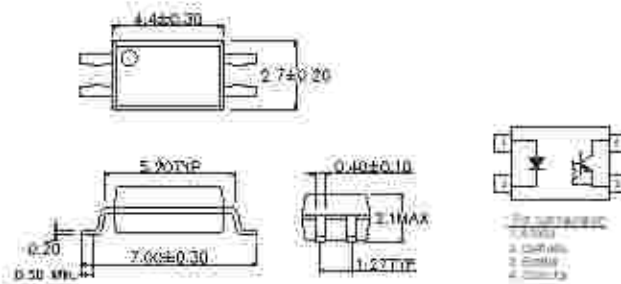
Product	Dimension (mm)	Feature	V _F (V)	BV _{COV} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (µs)	t _f (µs)	T _{case} (°C)	V _{ISO} (Vrms)
EL3H7G	4.4x2.7x2.1	High V _{CE}	1.2	80	0.2	5	20-600	5	5	-55-110	3250
EL3H7U-G	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C	1.4	80	0.2	0.1	20-600	5	5	-55-110	2750
EL3H7H-G	4.4x2.7x2.1	TOPR=+125°C	1.2	80	0.3	5	80-280	5	5	-55-125	3750
EL3H7L-G	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C	1.5	80	0.4	0.3	20-600	5	10	-55-125	3750
EV3H7U-G	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C, AEC-Q101 Certified	1.3	80	0.4	0.3	20-600	5	10	-55-125	3750
EL3C8TG	4.4x2.7x2.1	Low Input Current: 0.5mA, TOPR=+125°C, Full A/B CTR	1.3	90	0.3	0.3	20-600	5	5	-55-125	3750

Photo Coupler

Photo Coupler | Photo Transistor | 4pin SSOP-DC



UNIT: mm

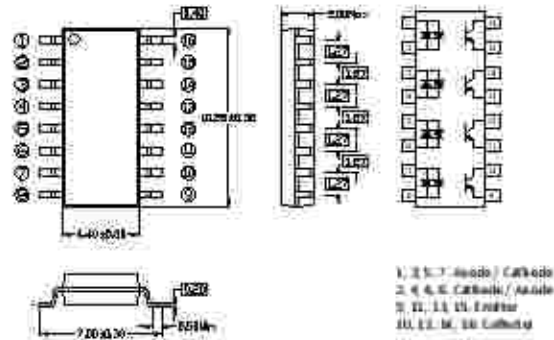


Product	Dimension (mm)	Feature	V _F (V)	BV _{LED} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (µs)	t _f (µs)	t _{on} (µs)	t _{off} (µs)	T _{amb} (°C)	V _{ISO} (Vrms)
EL2H04-D	4.4±0.3±0.1	ToPPr=12FC, 20Kbps I _{on} & I _{off} < 30µg, R _L =10 KΩ	1.3	70	0.3	1	100-500	-	-	20 (max)	20 (max)	-40~125	3750

Photo Coupler | Photo Transistor | 16pin SSOP-AC



UNIT: mm

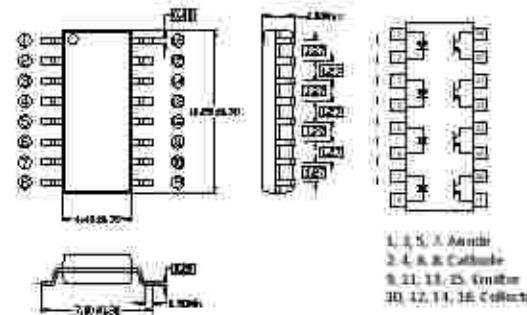


Product	Dimension (mm)	Feature	V _F (V)	BV _{LED} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (µs)	t _f (µs)	T _{amb} (°C)	V _{ISO} (Vrms)
EL02H4-G	14.25±0.40	ICH, High V _{iso}	1.3	80	0.2	1	20-500	1	1	-25~110	3700

Photo Coupler | Photo Transistor | 16Pin SSOP-DC



UNIT: mm

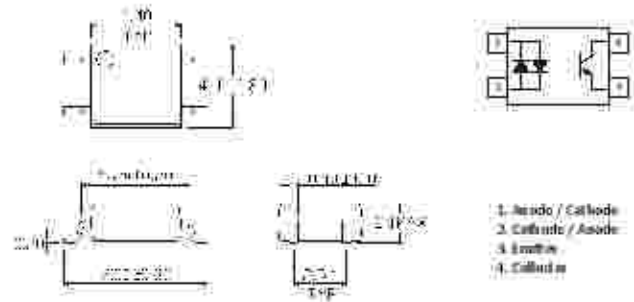


Product	Dimension (mm)	Feature	V _F (V)	BV _{LED} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (µs)	t _f (µs)	T _{amb} (°C)	V _{ISO} (Vrms)
EL02H7-G	14.25±0.4±0.2	ICH, High V _{iso}	1.2	80	0.2	1	50-500	1	1	-25~110	3700

Photo Coupler | Photo Transistor | 4pin SOP-AG



UNIT: mm

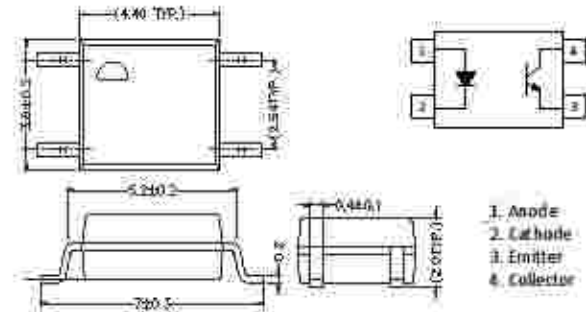


Product	Dimension (mm)	Feature	V_f (V)	BF_{DC} (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_f (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	T_{max} ($^{\circ}$ C)	V_{iso} (Vrms)
EL200N-G	4.1x4.1x2.1	High Speed	1.2	30	0.2	11	20~300	-	-	-55~100	3750

Photo Coupler | Photo Transistor | 4pin SOP-DC



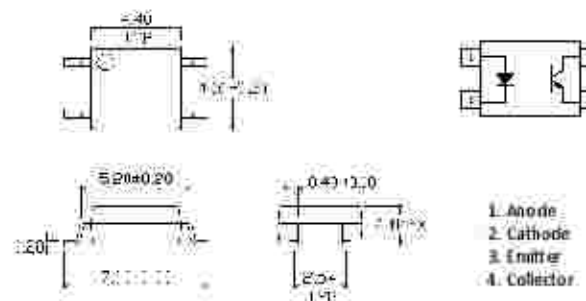
UNIT: mm



Product	Dimension (mm)	Feature	V_f (V)	BF_{DC} (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_f (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	T_{max} ($^{\circ}$ C)	V_{iso} (Vrms)
EL123N-G	4.4x2.6x2	High Speed	1.2	30	0.2	5	20~400	6	8	-55~110	1750



UNIT: mm

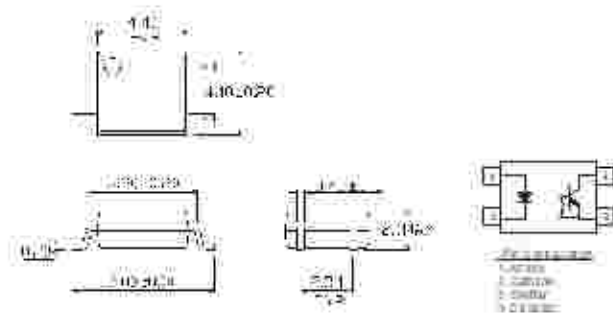


Product	Dimension (mm)	Feature	V_f (V)	BF_{DC} (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_f (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	T_{max} ($^{\circ}$ C)	V_{iso} (Vrms)
EL200N-G	4.1x4.1x2.1	High Speed	1.2	30	0.2	11	20~300	3	6	-55~110	3750
EL200N-G	4.1x4.1x2.1	Ultra Low Input Current: 0.1mA	1.2	75	0.4	0.1	50~300	5	12	-55~110	3750
EL200N-G	4.1x4.1x2.1	$T_{OPR}+125^{\circ}$ C	1.2	30	0.2	11	20~300	6	8	-55~120	3750
EL200N-G	4.1x4.1x2.1	Low Input Current: 0.5mA $T_{OPR}+125^{\circ}$ C	1.2	30	0.4	0.5	20~300	-	-	-55~120	3750
EV200N-G	4.1x4.1x2.1	Low Input Current: 0.5mA $T_{OPR}+125^{\circ}$ C/AGC2101 Carries	1.2	30	0.4	0.5	20~300	-	-	-55~120	3750
EL200N-G	4.1x4.1x2.1	Low Input Current: 0.5mA $T_{OPR}+125^{\circ}$ C/10k IF30 CTR	1.2	30	0.4	0.5	20~300	4	7	-55~120	3750

Photo Coupler | Photo Transistor | 4pin SSOP-DC



UNIT : mm

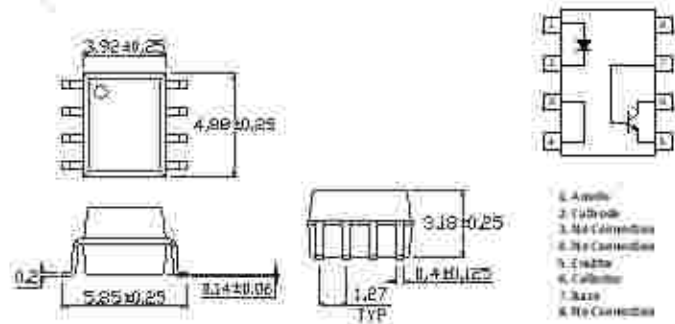


Product	Dimension (mm)	Feature	V_{CE} (V)	BV_{CEO} (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (µs)	t_f (µs)	t_{on} (µs)	t_{off} (µs)	T_{case} (°C)	V_{iso} (Vrms)
EL202-D	4.00±0.20×1.45±0.05	High V _{CE} (120°C), 20 kHz, Tr@T _{case} < 300ms@R _{th} >10°C/W	1.5	80	0.8	10	100-200	-	-	30 (1000)	20 (1000)	-40~+25	2500

Photo Coupler | Photo Transistor | 8pin SOP-DC



UNIT : mm

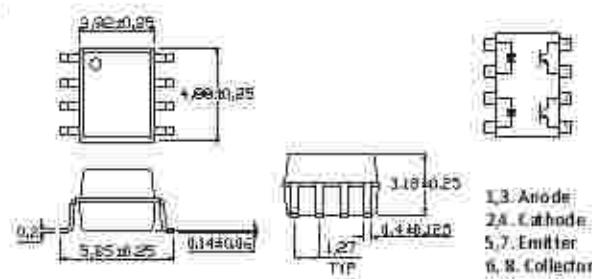


Product	Dimension (mm)	Feature	V_{CE} (V)	BV_{CEO} (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (µs)	t_f (µs)	t_{on} (µs)	t_{off} (µs)	T_{case} (°C)	V_{iso} (Vrms)
EL205	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	40-80	1.5	2.2	8	3	-55~+110	2500
EL206	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	60-120	1.5	2.2	8	3	-55~+110	2500
EL207	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	100-200	1.5	2.2	8	3	-55~+110	2500
EL208	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	180-320	1.5	2.2	8	3	-55~+110	2500
EL211	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>20	1.5	2.2	8	3	-55~+110	2500
EL212	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>50	1.5	2.2	8	3	-55~+110	2500
EL213	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>100	1.5	2.2	8	3	-55~+110	2500
EL214	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>10	1.5	2.2	8	3	-55~+110	2500
EL215	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>100	1.5	2.2	8	3	-55~+110	2500
EL217	4.99±0.25×3.92±0.25	High V _{CE} with Base Pin Function	1.5	80	0.4	10	>100	1.5	2.2	8	3	-55~+110	2500

Photo Coupler | Photo Transistor | 8pin SOP-DC



UNIT : mm

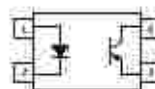
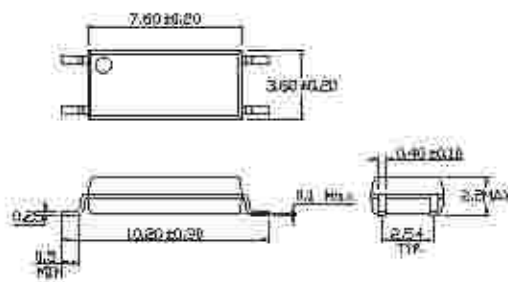


Product	Dimension (mm)	Feature	V _i (V)	BV _{CE0} (Min) (V)	V _{CE(sat)} (Max) (V)	I _c (mA)	CTR (%)	τ _f (μs)	τ _r (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	V _{iso} (Vrms)
ELD005	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	10	40-60	1.4	2.2	3	3	-55-110	3700
ELD006	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	10	50-120	1.6	2.2	3	3	-55-110	3700
ELD007	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	10	100-200	1.6	2.2	3	3	-55-110	3700
ELD011	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	10	>20	1.6	2.2	3	3	-55-110	3700
ELD113	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	10	>100	1.4	2.2	3	3	-55-110	3700
BLD111	4.80x2.00x1.10	High Vce & Blue channel	1.2	60	0.4	1	>100	1.6	2.2	3	3	-55-110	3700

Photo Coupler | Photo Transistor | 4pin Long Creepage



(UNIT: mm)



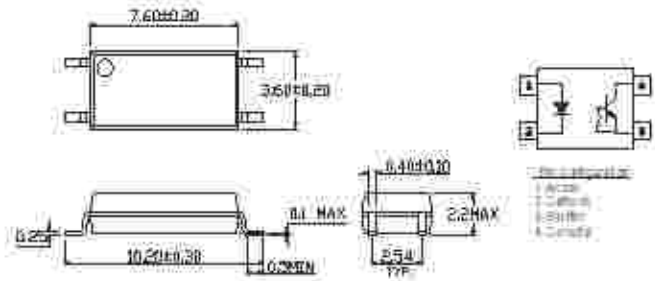
- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

Product	Dimension (mm)	Feature	V _F (V)	IF Typ (mA)	V _{CE(sat)} (Max) (V)	I _C (mA)	CTR (%)	t _r (µs)	t _f (µs)	t _{off} (µs)	T _{case} (°C)	VISO (VMM5)	
EL101GD	T-6336422	250\timesCT1\times400	1.45	80	0.3	5	50-500	-	-	4	3	-55-110	5000
EL101TD	T-6336423	250\timesCT1\times400	1.45	80	0.4	10	80-120	-	-	4	3	-55-110	5000
EL101SD	T-6336422	250\timesCT1\times400	1.45	80	0.3	10	100-200	-	-	4	3	-55-110	5000
EL101GD	T-6336423	250\timesCT1\times400	1.45	80	0.3	10	100-200	-	-	4	3	-55-110	5000
EL101TD	T-6336421	250\timesCT1\times400	1.45	80	0.3	5	80-100	-	-	4	3	-65-110	5000
EL101ND	T-6336423	075\timesCT1\times400	1.45	80	0.3	5	130-250	-	-	4	3	-65-110	5000
EL101SD	T-6336421	250\timesCT1\times400	1.45	80	0.3	5	200-400	-	-	4	3	-55-110	5000
EL1010TD	T-6336422	CT1\times800	1.45	80	0.3	5	50-800	-	-	4	3	-55-110	5000
EL1012TD	T-6336421	CT1\times800	1.45	80	0.3	10	50-120	-	-	4	3	-65-110	5000
EL1013TD	T-6336423	CT1\times800	1.45	80	0.3	10	100-200	-	-	4	3	-55-110	5000
EL1014TD	T-6336422	CT1\times800	1.45	80	0.3	10	150-320	-	-	4	3	-55-110	5000
EL1017TD	T-6336423	CT1\times800	1.45	80	0.4	5	80-150	-	-	4	3	-55-110	5000
EL1018TD	T-6336422	CT1\times800	1.45	80	0.3	5	100-200	-	-	4	3	-55-110	5000
EL1019TD	T-6336423	CT1\times800	1.45	80	0.3	5	200-300	-	-	4	3	-55-110	5000
EL101LD	T-6336421	Ultra Low Input Current (0.1µA)	1.2	70	0.4	0.1	50-200	-	-	-	-	-55-110	5000
EL1010TD	T-6336422	TEMP\times125°C	1.2	80	0.3	5	50-800	-	-	10	10	-55-125	5000
EL101U-D	T-6336421	Low Input Current (1.0µA), TOPP\times125°C	1.3	80	0.4	0.5	50-500	-	-	4	30	-40-125	5000
EL1013-D	T-6336423	Low Input Current (5.0µA), TOPP\times125°C, RECOGNIT. Cathode	1.2	80	0.4	0.2	50-500	-	-	1	50	-55-125	5000
EL1011-D	T-6336421	Low Input Current (0.5µA), TOPP\times125°C, P&L, W\times5-CTR	1.3	80	0.4	0.5	50-500	5	5	-	-	-55-125	5000

Photo Coupler | Photo Transistor | 4pin Long Creepage



UNIT: mm

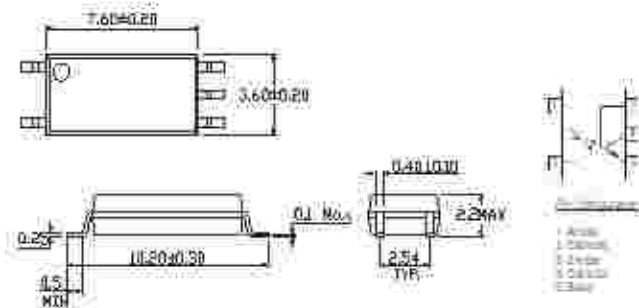


Product	Dimension (mm)	Feature	V _{CE} (V)	EV _{LED} (mW) (m)	V _{CE(sat)} (V) (m)	I _C (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	W _{LED} (mW)
EL244-G	7.6x3.6x2.2	TOP: 120°C, 20mA T _{MIN} : 20°C, 10mA, R _{θJC} : 10 K/W	1.3	30	0.3	5	100-200	-	-	30 (100V)	20 (100V)	-55~125	3750

Photo Coupler | Photo Transistor | 5pin Long Creepage



UNIT: mm



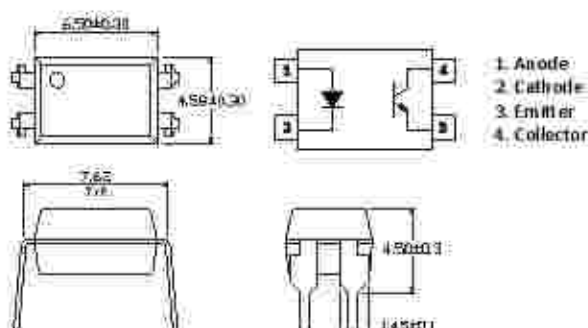
Product	Dimension (mm)	Feature	V _{CE} (V)	EV _{LED} (mW) (m)	V _{CE(sat)} (V) (m)	I _C (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	W _{LED} (mW)
EL115-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	5	50-600	2	5	4	5	-55~115	5000
EL112-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	10	50-120	2	5	4	5	-55~115	3000
EL113-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	10	100-200	2	5	4	5	-55~115	5000
EL114-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	10	100-200	2	5	4	5	-55~115	5000
EL116-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	5	100-200	2	5	4	5	-55~115	5000
EL117-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	5	50-150	2	5	4	5	-55~115	5000
EL118-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	5	100-200	2	5	4	5	-55~115	5000
EL119-G	7.6x3.6x2.2	200-CT1400, with Base Pin Function	1.45	30	0.4	5	200-400	2	5	4	5	-55~115	5000

Photo Coupler

Photo Coupler | Photo Transistor | 4pin DIP-AC



UNIT: mm

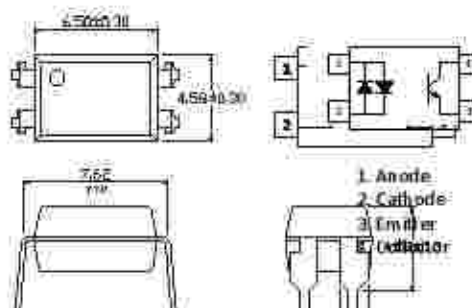


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	V _{iso} (Vrms)
EL815-D	6.5x4.5x1.5	High Speed	1.2	80	0.2	5	50-500	-	-	-	-	55-110	5000

Photo Coupler | Photo Transistor | 4pin DIP-DC



UNIT: mm

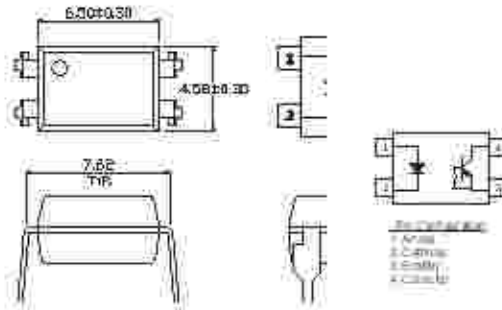


Product	Dimension (mm)	Feature	V _F (V)	BV _{CEO} (Min) (V)	V _{CE(sat)} (Max) (V)	I _F (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	V _{iso} (Vrms)
EL815-G	6.5x4.5x1.5	High Speed	1.2	80	0.2	5	50-500	8	8	-	-	55-110	5000
EL817-G	6.5x4.5x1.5	High Speed	1.2	80	0.2	5	50-500	8	8	-	-	55-110	5000
EL851-G	6.5x4.5x1.5	High Speed 30V	1.2	80	0.4	5	50-500	8	8	-	-	55-110	5000
EL817L-G	6.5x4.5x1.5	Low Dark Non Current 0.1mA	1.8	75	0.4	5.1	50-500	-	-	-	-	55-110	5000
EL817P-G	6.5x4.5x1.5	TOPP(+25°C)	1.2	80	0.35	5	50-500	4	8	-	-	55-110	5000
EL817CO	6.5x4.5x1.5	Low Dark Current: 0.201A, TOPP(+25°C) 300 nA @ 50 μs	1.2	80	0.4	3.5	50-500	6	8	-	-	55-125	5000

Photo Coupler | Photo Transistor | 4pin DIP-DC



UNIT: mm

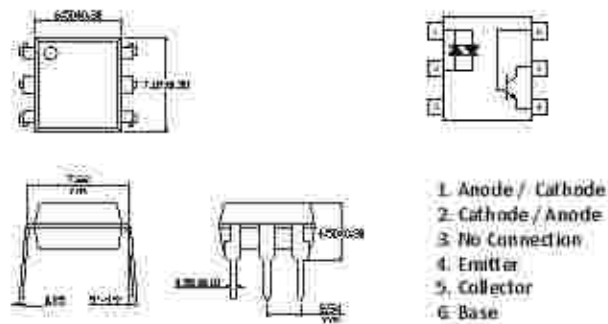


Product	Dimension (mm)	Feature	V _{CE} (V)	BV _{CE(sat)} (Min) (V)	V _{CE(sat)} (Max) (V)	I _C (mA)	CTR (%)	τ _r (μs)	τ _f (μs)	τ _{on} (μs)	τ _{off} (μs)	T _{case} (°C)	V _{ISO} (Vrms)
EL3F-G	5.5x4.0x3.5	ICPR=120% C=20kbps THI&TOH=30μs(FL=50%)	1.2	10	0.2	5	100-1000	-	-	-	-	-40-125	3750

Photo Coupler | Photo Transistor | 6pin DIP-AC



UNIT: mm



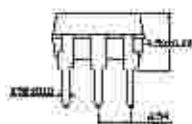
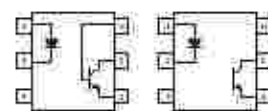
Product	Dimension (mm)	Feature	V _{CE} (V)	BV _{CE(sat)} (Min) (V)	V _{CE(sat)} (Max) (V)	I _C (mA)	CTR (%)	τ _r (μs)	τ _f (μs)	τ _{on} (μs)	τ _{off} (μs)	T _{case} (°C)	V _{ISO} (Vrms)
H15AA1	7.15x5.5x2.9	High V _{CE(sat)} with Base Pin Function	1.2	50	0.4	10	>20	10	10	10	10	-55-100	5000
H15AA2	7.15x5.5x2.9	High V _{CE(sat)} with Base Pin Function	1.2	50	0.4	10	>50	10	10	10	10	-55-100	5000
H15AA3	7.15x5.5x2.9	High V _{CE(sat)} with Base Pin Function	1.2	50	0.4	10	>80	10	10	10	10	-55-100	5000
H15AA4	7.15x5.5x2.9	High V _{CE(sat)} with Base Pin Function	1.2	50	0.4	10	>100	10	10	10	10	-55-100	5000

Photo Coupler

Photo Coupler | Photo Transistor | 6pin DIP-DG



UNIT: mm



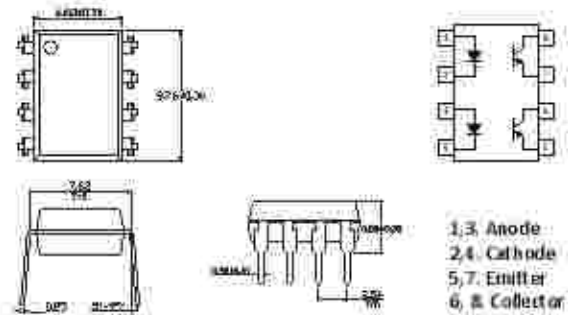
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Emitter
- 5. Collector
- 6. Base

Product	Dimension (mm)	Feature	V _i (V)	V _{iso} (Min) (V)	V _{iso} (Max) (V)	I _c (mA)	CTR (%)	τ _r (μs)	τ _f (μs)	tan δ (μs)	toff (μs)	T _{op} (°C)	V _{iso} (Vrms)
4N27	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.6	10	>50	-	-	3	3	-25~110	5000
4N25	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.6	10	>50	-	-	3	3	-25~110	5000
4N23	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.5	10	>45	-	-	3	3	-25~110	5000
4N28	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.5	10	>45	-	-	3	3	-25~110	5000
4N20	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.3	10	>100	-	-	10	3	-25~110	5000
4N26	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.5	10	>100	-	-	10	3	-25~110	5000
4N22	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.3	10	>100	-	-	10	3	-25~110	5000
4N29	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	1	10	>50	-	-	10	3	-25~110	5000
H1FA1	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.4	10	>50	-	-	3	3	-25~110	5000
H1FA2	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.4	10	>50	-	-	3	3	-25~110	5000
H1FA3	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.4	10	>50	-	-	3	3	-25~110	5000
H1FA4	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.4	10	>45	-	-	3	3	-25~110	5000
H1FA5	7.12x5.015	High V _{iso} , with Base Pin Function	12	80	0.4	10	>30	-	-	3	3	-25~110	5000
CHY17-1	7.12x5.015	High V _{iso} , with Base Pin Function	1.65	80	0.3	10	40~80	6	3	10	3	-25~110	5000
CHY17-2	7.12x5.015	High V _{iso} , with Base Pin Function	1.65	80	0.3	10	60~120	4	3	10	3	-25~110	5000
CHY17-3	7.12x5.015	High V _{iso} , with Base Pin Function	1.65	80	0.3	10	100~200	6	3	10	3	-25~110	5000
CHY17-4	7.12x5.015	High V _{iso} , with Base Pin Function	1.65	80	0.3	10	160~320	4	3	10	3	-25~110	5000
CHY17E-1	7.12x5.015	High V _{iso} , without Base Pin Function	1.65	80	0.3	10	80~90	6	3	10	3	-25~110	5000
CHY17E-2	7.12x5.015	High V _{iso} , without Base Pin Function	1.65	80	0.3	10	50~120	6	3	10	3	-25~110	5000
CHY17E-3	7.12x5.015	High V _{iso} , without Base Pin Function	1.65	80	0.3	10	100~200	6	3	10	3	-25~110	5000
CHY17E-4	7.12x5.015	High V _{iso} , without Base Pin Function	1.65	80	0.3	10	150~320	6	3	10	3	-25~110	5000

Photo Coupler | Photo Transistor | 8pin DIP-DC



UNIT : mm

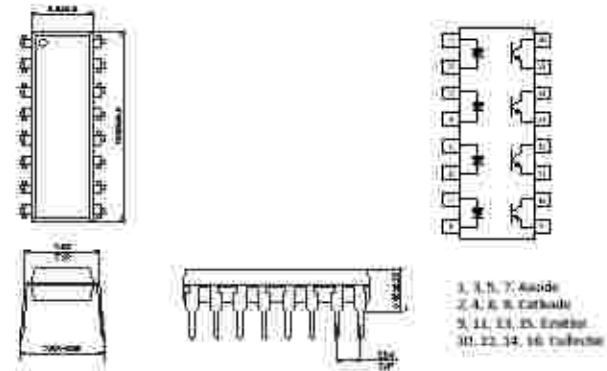


Product	Dimension (mm)	Feature	V_F (V)	BV_{LED} (MP) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{amb} ($^{\circ}$ C)	v_{iso} (Vrms)
EL817	3.20x6.6x5.5	High Volt. Dis. isolated.	1.2	80	0.2	5	50-600	3	4	-	-	-55-110	5000

Photo Coupler | Photo Transistor | 16pin DIP-DC



UNIT : mm



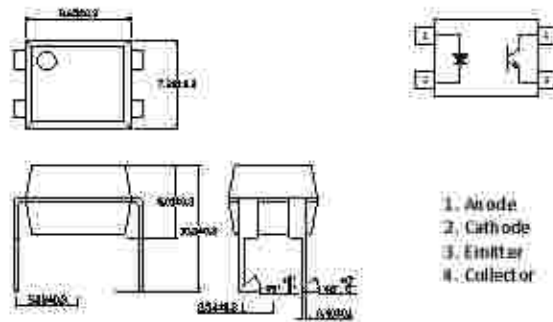
Product	Dimension (mm)	Feature	V_F (V)	BV_{LED} (MP) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{amb} ($^{\circ}$ C)	v_{iso} (Vrms)
EL847	1.80x6.6x4.5	ICH, High Volt.	1.2	80	0.2	5	50-600	5	8	-	-	-55-110	5000

Photo Coupler

Photo Coupler | Photo Transistor | 4Pin High Isolation



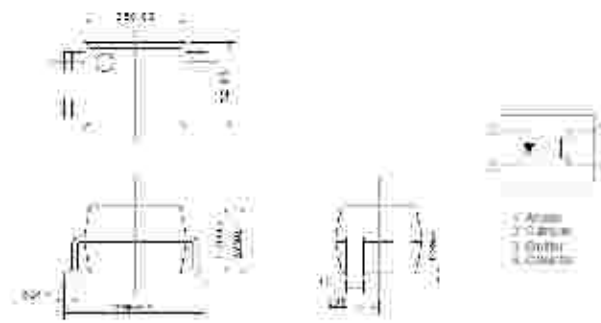
UNIT: mm



Product	Dimension (mm)	Feature	V_F (V)	I_{Fmax} (mA)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
CH164	8.52x7.2x6.01	$V_{iso}=8kV$, Creepage Distance > 10mm	1.6	50	0.3	5	50-100	3	5	5	7	-55-85	8200



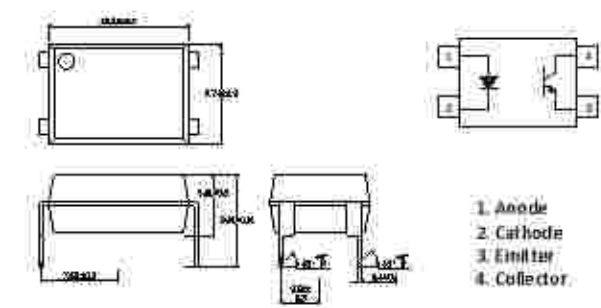
UNIT: mm



Product	Dimension (mm)	Feature	V_F (V)	I_{Fmax} (Max) (mA)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
CH135	8.52x7.2x6.01	$V_{iso}=8kV$, Creepage Distance > 10mm	1.6	50	0.3	5	50-100	3	5	5	7	-55-85	8200



UNIT: mm

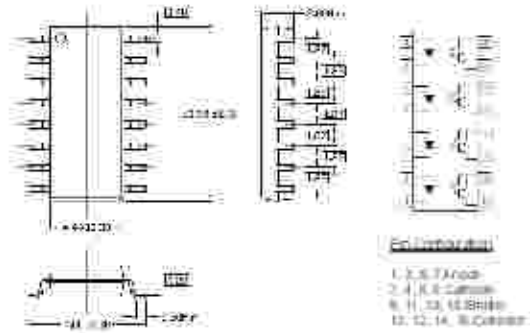


Product	Dimension (mm)	Feature	V_F (V)	I_{Fmax} (Max) (mA)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
CH151	7.25x6.97x6.01	$V_{iso}=8kV$, Creepage Distance > 10mm	1.6	50	0.3	5	50-100	3	5	5	7	-55-85	8200

Photo Coupler | Photo Transistor | 16pin SSOP-DC



UNIT: mm

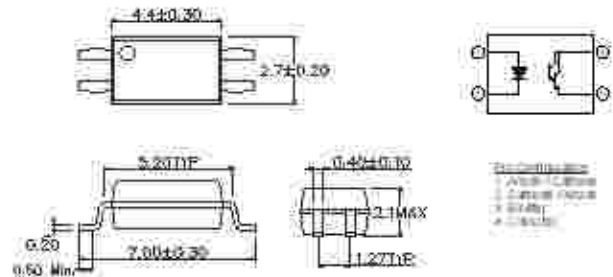


Product	Dimension (mm)	Feature	V_F (V)	SV_{Fwd} (mA)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
EL2315-D	16-2804-4x2	4 Ch. Darlington High CTR with small package	1.1	40	1	1	100-7500	80	70	-	-	-55-100	3750

Photo Coupler | Photo Darlington | 4pin SSOP-DC



UNIT: mm



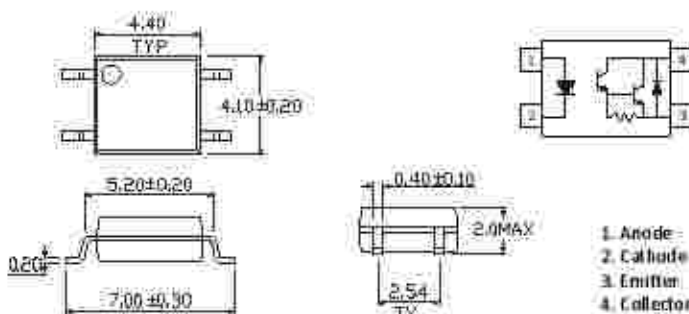
Product	Dimension (mm)	Feature	V_F (V)	SV_{Fwd} (Max) (mA)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
EL2315-D	4-8x2-5x2	Darlington High CTR with small package	1.1	40	1	1	100-7500	80	70	-	-	-55-100	3750

Photo Coupler

Photo Coupler | Photo Darlington | 4Pin DIP-DC



UNIT: mm

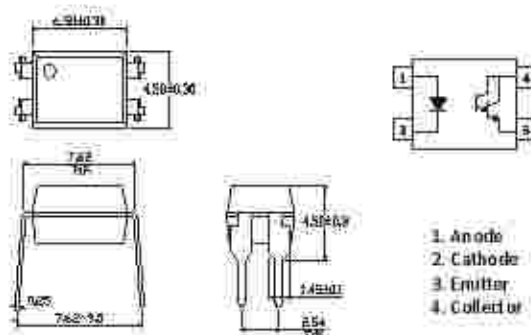


- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

Product	Dimension (mm)	Feature	V_f (V)	$SV_{CE(sat)}$ (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	V_{iso} (Vrms)
EL25-G	4.4x4.1x2	Darlington High CTR with small package	1.2	≤50	1.5	1	×1000	10	10	-	-	-55~110	3750



UNIT: mm



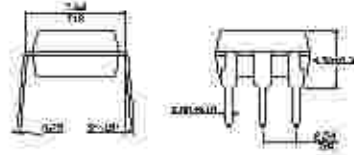
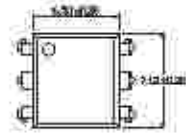
- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

Product	Dimension (mm)	Feature	V_f (V)	$SV_{CE(sat)}$ (Min) (V)	$V_{CE(sat)}$ (Max) (V)	I_C (mA)	CTR (%)	t_r (μ s)	t_f (μ s)	t_{on} (μ s)	t_{off} (μ s)	T_{case} ($^{\circ}$ C)	V_{iso} (Vrms)
EL215-G	8.5x4.9x4.5	Darlington High CTR	1.2	35	1	1	500~2500	30	30	-	-	-55~110	5000
EL212-G	8.5x4.9x4.5	Darlington High CTR High V _{CE(sat)} 200V	1.2	50	13	1	1000~15000	300	100	-	-	-55~110	5000

Photo Coupler | Photo Darlington | 6Pin DIP-DC



UNIT: mm



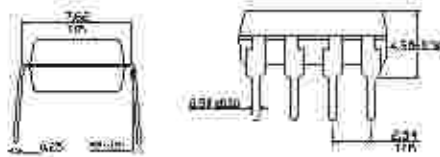
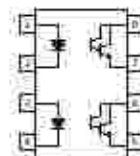
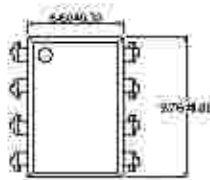
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Emitter
- 5. Collector
- 6. Base

Product	Dimension (mm)	Feature	V _{CE} (V)	BV _{CE0} (Min) (V)	V _{CE(sat)} (Max) (V)	I _C (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	V _{iso} (Vrms)
#729	7.12x5.5x2.5	Darlington High CTR	14	55	1	10	>100	-	-	5	10	-55-100	5000
#630	7.12x5.5x2.5	Darlington High CTR	15	55	1	10	>100	-	-	5	10	-55-100	5000
#731	7.12x5.5x2.5	Darlington High CTR	14	55	1.2	10	>50	-	-	5	10	-55-100	5000
#622	7.12x5.5x2.5	Darlington High CTR	12	55	1	10	>100	-	-	5	10	-55-100	5000
#623	7.12x5.5x2.5	Darlington High CTR	12	55	1	10	>100	-	-	5	10	-55-100	5000
H1181	7.12x5.5x2.5	Darlington High CTR	12	55	1	1	>100	-	-	25	15	-55-100	5000
H1182	7.12x5.5x2.5	Darlington High CTR	12	55	1	1	>100	-	-	25	15	-55-100	5000
H1183	7.12x5.5x2.5	Darlington High CTR	12	55	1	1	>100	-	-	25	15	-55-100	5000
TSL43	7.12x5.5x2.5	Darlington High CTR	12	55	1.2	10	>100	-	-	5	10	-55-100	5000

Photo Coupler | Photo Darlington | 8Pin DIP-DC



UNIT: mm



- 1, 3. Anode
- 2, 4. Cathode
- 5, 7. Emitter
- 6, 8. Collector

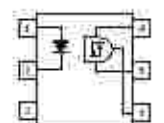
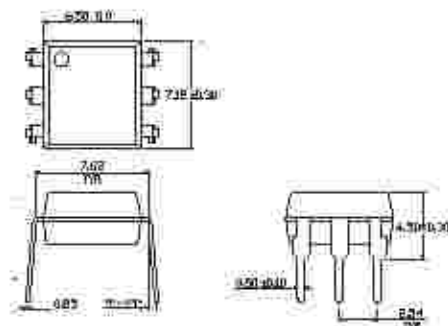
Product	Dimension (mm)	Feature	V _{CE} (V)	BV _{CE0} (Min) (V)	V _{CE(sat)} (Max) (V)	I _C (mA)	CTR (%)	t _r (μs)	t _f (μs)	t _{on} (μs)	t _{off} (μs)	T _{case} (°C)	V _{iso} (Vrms)
E1225	8.76x5.5x2.5	Darlington High CTR Dual Ch.	12	55	1	1	50-700	55	55	-	-	-55-110	5000

Photo Coupler

Photo Coupler | Schmitt Trigger | 6Pin DIP-DC



UNIT: mm



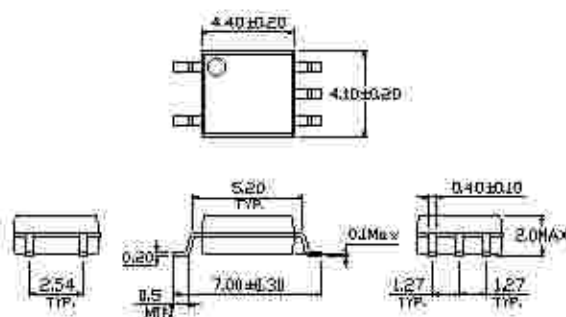
- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. V_{cc}
- 5. GND
- 6. V_{cc}

Product	Dimension(mm)	Feature	Supply Voltage (V)	I _F (mA)	I _{sat} (mA)	I _{off} (mA)	T _{case} (°C)	V _{iso} (Vrms)
H11C1	7.12x5.2x3.3	1M typ H to L, Edge-triggered	5-15	7.5	4	4	55-100	3000
H11C2	7.12x5.2x3.3	1M typ H to L, Schmitt-triggered	5-15	10	4	4	55-100	3000
H11C3	7.12x5.2x3.3	1M typ H to L, Schmitt-triggered	5-15	5	4	4	55-100	5000

Photo Coupler | High Speed | 5Pin SOP-DC



UNIT: mm



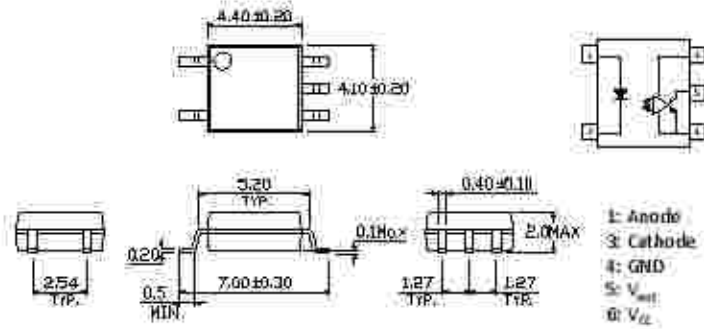
- 1: Anode
- 3: Cathode
- 4: GND
- 5: V_{cc}
- 6: V_{cc}

Product	Dimension (mm)	Feature	Supply Voltage (V)	I _F (mA)	CTR (%)	SFL (ns)	SFLH (ns)	CNR (V/Hz)	T _{case} (°C)	V _{iso} (Vrms)
ELM402	4.4x4.1x2	1M typ H to L, Open-Collector Output, CTR type	5	5	>15	800	800	2000	-40-85	3700
ELM403	4.4x4.1x2	1M typ H to L, Open-Collector Output, CTR type	5	5	>10	800	800	1000	-40-85	3700
ELM403H	4.4x4.1x2	1M typ H to L, Open-Collector Output, CTR type, High TOFR	5	5	>25	1000	800	1000	-40-125	3700
ELM404	4.4x4.1x2	1M typ H to L, Pkt driver, Open-Collector Output, Threshold type	5	5	-	800	800	1000	-40-100	3700
ELM405	4.4x4.1x2	10M typ H to L, Open-Collector Output, Threshold type	5	5	-	800	800	-	-40-85	3700
ELM407	4.4x4.1x2	10M typ H to L, Open-Collector Output, Threshold type	5	5	-	700	700	5000	-40-85	3700
ELM408	4.4x4.1x2	10M typ H to L, Open-Collector Output, Threshold type	5	5	-	100	100	20000	-40-85	3700
ELM409H	4.4x4.1x2	10M typ H to L, Open-Collector Output, Threshold type, High TOFR	5	5	-	700	700	1000	-40-125	3700

Photo Coupler | High Speed | 5Pin SOP



UNIT: mm

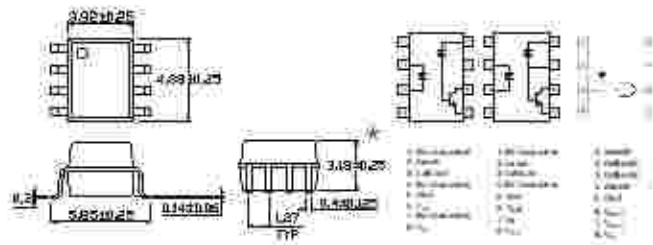


Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{LED} (mA)	CPHL (ns)	CPLH (ns)	CMR (V/Hz)	T _{case} (°C)	V _{ISO} (V/Hz)
ELM5B	4.4x4.1x2	1M cps H to H, 1PM driver, Triem-Pol Output, Threshold type, DC input	5	5	40	40	1000	-40-85	2750
ELM5B	4.4x4.1x2	1M cps H to H, 1PM driver, Triem-Pol Output, Threshold type, RC input	5	5	40	40	1000	-40-85	2750
ELM5A	4.4x4.1x2	1M cps H to H, Triem-Pol Output, Threshold type, Low IF	5	15	60	60	1000	-40-85	2750
ELM5C	4.4x4.1x2	10M cps H to L, Triem-Pol Output, Threshold type	5	5	60	60	1000	-40-85	2750

Photo Coupler | High Speed | 8Pin SOP-DC



UNIT: mm



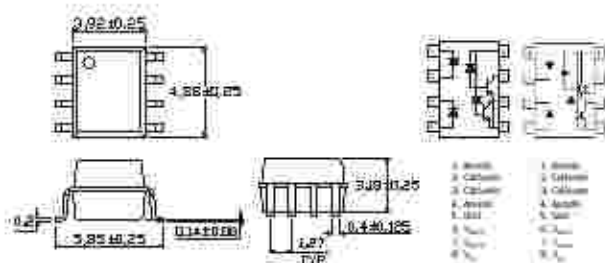
Product	Dimension (mm)	Feature	Supply Voltage (V)	I _{LED} (mA)	CTR (%)	CPHL (ns)	CPLH (ns)	CMR (V/Hz)	T _{case} (°C)	V _{ISO} (V/Hz)
*ELM5C	4.4x4.1x2.5x3.18	1M cps H to L, Open-Collector Output, CTR type	5	-	15-50	80	80	-	25-100	2750
*ELM5D	4.4x4.1x2.5x3.18	1M cps H to L, Open-Collector Output, CTR type	5	-	15-50	80	80	1000	25-100	2750
ELM5D	4.4x4.1x2.5x3.18	4M cps H to L, Open-Collector Output, CTR type	5	-	2-50	150	150	-	25-100	2750
ELM5D	4.4x4.1x2.5x3.18	1M cps H to L, Open-Collector Output, CTR type	5	-	40-50	80	80	-	25-100	2750
ELM5C	4.4x4.1x2.5x3.18	10M cps H to L, Open-Collector Output, Threshold type	5	5	-	70	70	-	40-100	2750
ELM5D	4.4x4.1x2.5x3.18	10M cps H to L, Open-Collector Output, Threshold type	5	5	-	70	70	1000	40-100	2750
ELM5D	4.4x4.1x2.5x3.18	10M cps H to L, Open-Collector Output, Threshold type	5	5	-	70	70	1000	40-100	2750

Star mark*: Please refer to the schematic of Pin-configuration with "*" mark.

Photo Coupler | High Speed | 8pin SOP-DC



UNIT : mm

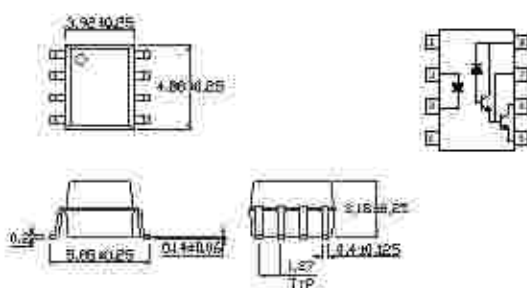


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F1} (mA)	CTR (%)	IFHL (ns)	IFLH (ns)	CMR (V/As)	T_{amb} (°C)	V_{iso} (Vrms)
EL0130	4.86x3.92x3.16	1M bps H to L, Dual CH, Open Collector Output, CTR type	5	-	5-20	100	150	1000	-30-100	3750
EL0131	4.86x3.92x3.16	1M bps H to L, Dual CH, Open Collector Output, CTR type	5	-	15-30	80	80	1000	-55-100	3750
EL0131*	4.86x3.92x3.16	10M bps H to L, Dual CH, Open Collector Output, Threshold type	5	5	-	100	100	10000	-30-100	3750

* (Please refer to the schematic or Pin configuration with "*" - "*" - pin)



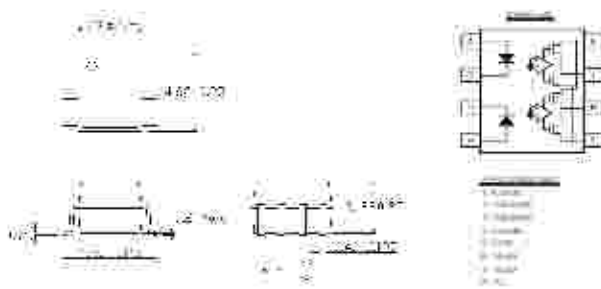
UNIT : mm



Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	IFHL (ns)	IFLH (ns)	CMR (V/As)	T_{amb} (°C)	V_{iso} (Vrms)
EL0100	4.86x3.92x3.16	10M bps H to L, Darlington Open Collector Output, CTR type	5	2000000	10000	30000	1000	-40-85	3750
EL0101	4.86x3.92x3.16	10M bps H to L, Darlington Open Collector Output, CTR type	5	5000000	20000	60000	1000	-40-85	3750



UNIT : mm

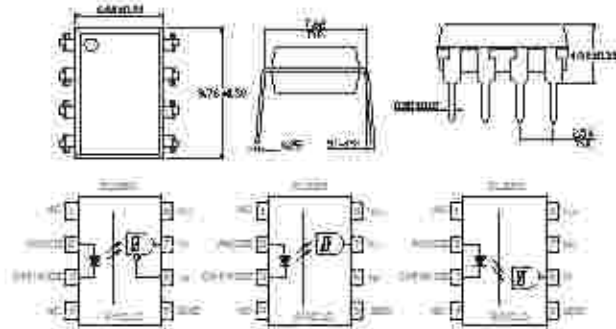


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F1} (mA)	IFHL (ns)	IFLH (ns)	CMR (V/As)	T_{amb} (°C)	V_{iso} (Vrms)
EL0101L	4.86x2.92x2.19	10M bps H to L, Dual CH, Toler. Fide Output, Threshold type	5	5	60	60	10000	40-85	3750

Photo Coupler | High Speed | 8pin DIP-DC



UNIT : mm

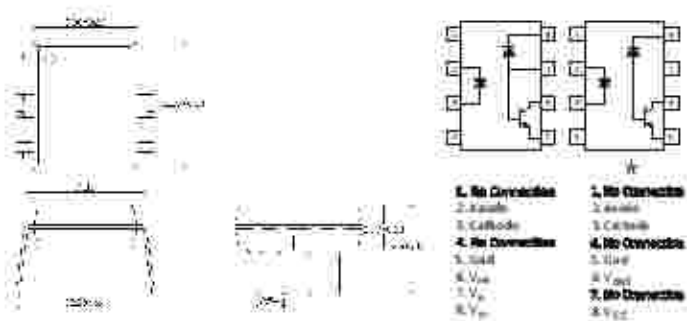


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_F (mA)	IFHL (ns)	IFLH (ns)	CMR (V/Hz)	T_{max} (°C)	Viso (V/mA)
EL2200	6.35x6.35x2.5	EM opt. H to H, IPM, linear, Emitter Follower Output, Threshold type	20	1E	300	300	1000	-40-65	5000
EL2201	6.35x6.35x2.5	EM opt. H to H, IPM, linear, Emitter Follower Output, Threshold type	20	1E	300	300	1000	-40-65	5000
EL2202	6.35x6.35x2.5	EM opt. H to H, IPM, linear, Emitter Follower Output, Threshold type	20	1E	300	300	1000	-40-65	5000

Photo Coupler | High Speed | 8Pin Wide Body DIP-DC



UNIT : mm



Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	IFHL (ns)	IFLH (ns)	CMR (V/Hz)	T_{max} (°C)	Viso (V/mA)
ELW120	11.15x8.3x3.2	EM opt. H to L, Open Collector Output, CTR 50%, 400mil wide body	30	7-20	1500	1500	1000	-55-100	5000
ELW120E	11.15x8.3x3.2	EM opt. H to L, Open Collector Output, CTR 50%, 400mil wide body	30	10-50	800	800	1000	-55-100	10000
ELW120S	11.15x8.3x3.2	EM opt. H to L, Open Collector Output, CTR 80%, 400mil wide body	30	10-50	800	800	10000	-55-100	5000

StarMark * (Please refer to the schematic of Pin configuration with * - - * - mark)

Photo Coupler

Photo Coupler | High Speed | 8Pin Wide Body DIP-DC



UNIT: mm



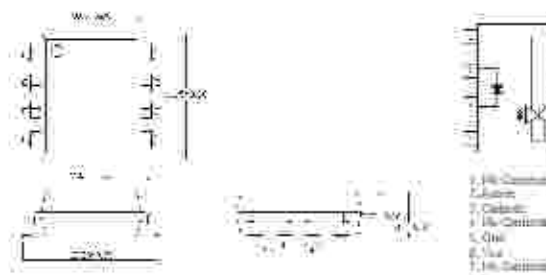
1. Output pin
2. In-Collector pin
3. Vcc pin
4. Output pin
5. In-Collector pin
6. In-Collector pin
7. In-Collector pin
8. In-Collector pin

Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F} (mA)	CTR (%)	BFHL (ns)	BPLH (ns)	QMP (V/us)	T_{case} ($^{\circ}$ C)	Viso (Vrms)
EW217	11.15x6.2x2.3	10M cps H to L, Open-Collector Output, Threshold type, 300mW wide body	5	5	>	500	100	-	-40-85	5000
EW218	11.15x6.2x2.3	10M cps H to L, Open-Collector Output, Threshold type, 300mW wide body	5	5	>	500	100	5000	-40-85	5000
EW211	11.15x6.2x2.3	10M cps H to L, Open-Collector Output, Threshold type, 300mW wide body	5	5	>	500	100	10000	-40-85	5000

Photo Coupler



UNIT: mm



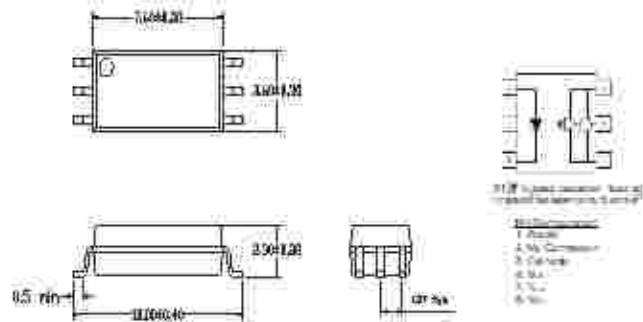
1. In-Collector pin
2. In-Collector pin
3. Output pin
4. In-Collector pin
5. In-Collector pin
6. In-Collector pin
7. In-Collector pin
8. In-Collector pin

Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F} (mA)	BFHL (ns)	BPLH (ns)	QMP (V/us)	T_{case} ($^{\circ}$ C)	Viso (Vrms)	
EW400	11.15x6.2x2.3	10M cps H to L, 10M driver, Open-Collector Output, Threshold type, 300mW wide body	30	5	>	300	400	10000	-40-100	5000

Photo Coupler | High Speed | 6Pin | LSOP



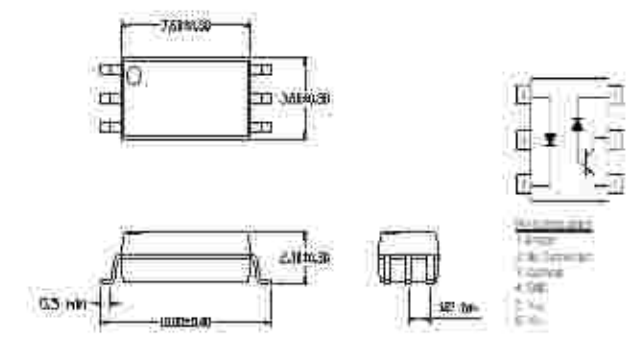
UNIT: mm



Product	Dimension (mm)	Feature	Supply Voltage (V)	I_C (mA)	PHL (ns)	PLH (ns)	CMP (V/μs)	T_{op} (°C)	V _{iso} (Vrms)
EL2801F	7.62x5.2x3	10M tps (1) for; opt. opt; Totem Pole Output; Threshold type	5	10	120	120	10000	-40~100	5000



UNIT: mm

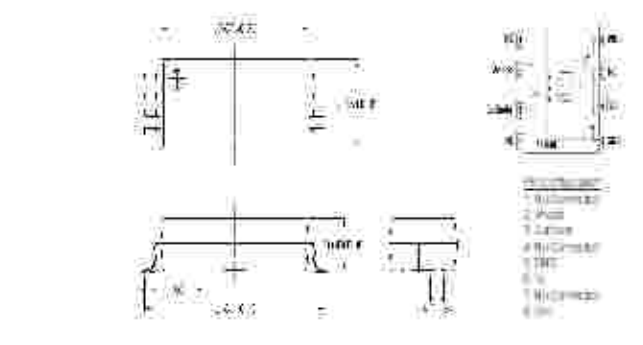


Product	Dimension (mm)	Feature	Supply Voltage (V)	CTR (%)	PHL (ns)	PLH (ns)	CMP (V/μs)	T_{op} (°C)	V _{iso} (Vrms)
EL2701	7.62x5.2x3	1M tps (1) for; Open Collector Output; CTR type	5	20000	1000	1000	2000	-50~100	5000

Photo Coupler | High Speed | 8Pin | 15mm | LLSOP-DC



UNIT: mm

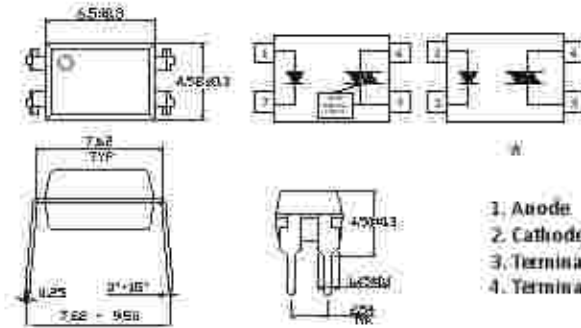


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_C (mA)	PHL (ns)	PLH (ns)	CMP (V/μs)	T_{op} (°C)	V _{iso} (Vrms)
EL4854	15.20x5.2x3	10M tps (1) for; Totem Pole Output; Threshold type; 100% Coverage; CTR>600	5	20	100	100	10000	-40~100	7000

Photo Coupler | Triac Driver | 4Pin DIP-DC



UNIT: mm



Product	Dimension (mm)	Feature	V_C (V)	$V_{CE(sat)}$ (V)	V_{CE} (V)	V_{CE} (V)	I_C (mA)	I_C (mA)	T_{case} (°C)	V_{iso} (Vrms)
ELT3041	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3042	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3043	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3044	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3045	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3046	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3047	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3048	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3049	6.5±0.25±0.3	400V VDRM Zero-cross	1.5	400	3	20	10	15	-55-100	5000
ELT3051	6.5±0.25±0.3	600V VDRM Zero-cross	1.5	600	3	20	10	15	-55-100	5000
ELT3052	6.5±0.25±0.3	600V VDRM Zero-cross	1.5	600	3	20	10	15	-55-100	5000
ELT3053	6.5±0.25±0.3	600V VDRM Zero-cross	1.5	600	3	20	10	15	-55-100	5000
ELT3054	6.5±0.25±0.3	600V VDRM Zero-cross	1.5	600	3	20	10	15	-55-100	5000
ELT3055	6.5±0.25±0.3	600V VDRM Zero-cross	1.5	600	3	20	10	15	-55-100	5000
*ELT3021	6.5±0.25±0.3	400V VDRM Random Phase	1.5	400	2.5	-	10	15	-55-100	5000
*ELT3022	6.5±0.25±0.3	400V VDRM Random Phase	1.5	400	2.5	-	10	15	-55-100	5000
*ELT3023	6.5±0.25±0.3	400V VDRM Random Phase	1.5	400	2.5	-	10	15	-55-100	5000
*ELT3024	6.5±0.25±0.3	600V VDRM Random Phase	1.5	600	2.5	-	10	15	-55-100	5000
*ELT3025	6.5±0.25±0.3	600V VDRM Random Phase	1.5	600	2.5	-	10	15	-55-100	5000
*ELT3026	6.5±0.25±0.3	600V VDRM Random Phase	1.5	600	2.5	-	10	15	-55-100	5000

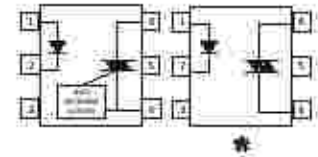
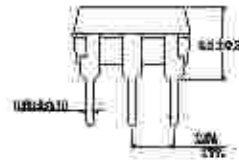
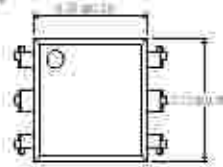
Sample: * Please refer to the schematic of Pin configuration with * (rate)

Photo Coupler

Photo Coupler | Triac Driver | 6Pin DIP-DC



UNIT: mm



- 1. Anode
- 2. Cathode
- 3. No Connection
- 4. Terminal
- 5. Substrate (do not connect)
- 6. Terminal

Product	Dimension (mm)	Feature	V _F (V)	V _{CE(sat)} (Max) (V)	V _{IF} (V)	V _{IR} (V)	I _{F (rms)} (mA)	I _F (mA)	T _{case} (°C)	V _{ISO} (Vrms)
EL3001	7.12x5.4x3.5	25V VDRM Zero-cross	1.5	250	3	30	100	15	-55-100	5000
EL3002	7.12x5.4x3.5	25V VDRM Zero-cross	1.5	250	3	30	100	10	-55-100	5000
EL3003	7.12x5.4x3.5	25V VDRM Zero-cross	1.5	250	3	30	100	5	-55-100	5000
EL3041	7.12x5.4x3.5	40V VDRM Zero-cross	1.5	300	3	30	100	15	-55-100	5000
EL3042	7.12x5.4x3.5	40V VDRM Zero-cross	1.5	300	3	30	100	10	-55-100	5000
EL3043	7.12x5.4x3.5	40V VDRM Zero-cross	1.5	300	3	30	100	5	-55-100	5000
EL3081	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	15	-55-100	5000
EL3082	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	10	-55-100	5000
EL3083	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	5	-55-100	5000
EL3084	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	15	-55-100	5000
EL3085	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	10	-55-100	5000
EL3086	7.12x5.4x3.5	80V VDRM Zero-cross	1.5	600	3	30	100	5	-55-100	5000
TEL3010	7.12x5.4x3.5	25V VDRM Random Phase	1.5	250	2.5	-	100	15	-55-100	5000
TEL3011	7.12x5.4x3.5	25V VDRM Random Phase	1.5	250	2.5	-	100	10	-55-100	5000
TEL3012	7.12x5.4x3.5	25V VDRM Random Phase	1.5	250	2.5	-	100	5	-55-100	5000
TEL3021	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	15	-55-100	5000
TEL3022	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	10	-55-100	5000
TEL3023	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	5	-55-100	5000
TEL3024	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	15	-55-100	5000
TEL3025	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	10	-55-100	5000
TEL3026	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	5	-55-100	5000
TEL3027	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	15	-55-100	5000
TEL3028	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	10	-55-100	5000
TEL3029	7.12x5.4x3.5	40V VDRM Random Phase	1.5	400	2.5	-	100	5	-55-100	5000
EL3071	7.12x5.4x3.5	80V VDRM Random Phase	1.5	800	2.5	-	100	15	-55-100	5000
EL3072	7.12x5.4x3.5	80V VDRM Random Phase	1.5	800	2.5	-	100	10	-55-100	5000
EL3073	7.12x5.4x3.5	80V VDRM Random Phase	1.5	800	2.5	-	100	5	-55-100	5000

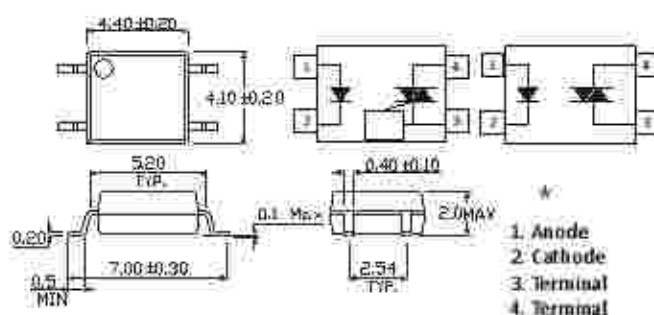
Note: * - Please refer to the schematic of Pin configuration with * - mark

Photo Coupler

Photo Coupler | Triac Driver | 4Pin SOP



UNIT : mm



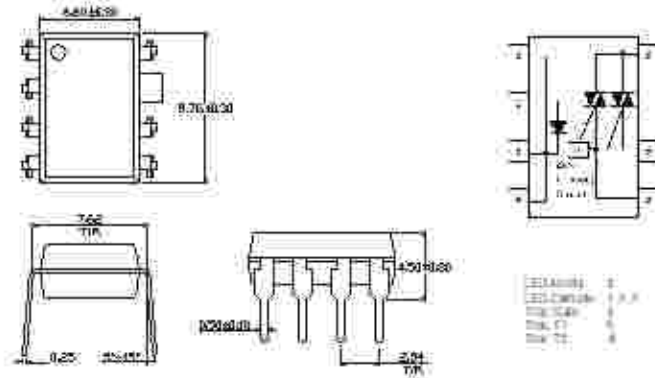
Product	Dimension (mm)	Number of Channels	V _{CE} (V)	V _{CEM} (Max) (V)	V _{TR} (V)	V _{TRM} (V)	I _{C,rms} (mA)	I _C (mA)	T _{case} (°C)	V _{ISO} (Vrms)
ELM3012	4.54x1x2	400V VDRM Zero-cross	1.5	400	2	20	70	10	-40~110	0.750
ELM3040	4.54x1x2	400V VDRM Zero-cross	1.5	400	3	20	20	5	-40~110	0.750
ELM3044	4.54x1x2	400V VDRM Zero-cross	1.5	400	3	20	70	3	-40~110	0.750
ELM3050	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	10	-40~110	0.750
ELM3053	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	5	-40~110	0.750
ELM3054	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	3	-40~110	0.750
ELM3082	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	10	-40~110	0.750
ELM3088	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	5	-40~110	0.750
ELM3089	4.54x1x2	500V VDRM Zero-cross	1.5	500	3	20	70	3	-40~110	0.750
ELM3122	4.54x1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	10	-40~110	0.750
ELM3123	4.54x1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	5	-40~110	0.750
ELM3124	4.54x1x2	400V VDRM Random Phase	1.5	400	2.5	-	70	3	-40~110	0.750
ELM3153	4.54x1x2	500V VDRM Random Phase	1.5	500	2.5	-	70	10	-40~110	0.750
ELM3153	4.54x1x2	500V VDRM Random Phase	1.5	500	2.5	-	70	5	-40~110	0.750
ELM3154	4.54x1x2	500V VDRM Random Phase	1.5	500	2.5	-	70	3	-40~110	0.750

Star (★) : Please refer to the schematic or Pin configuration with ★ : star

Photo Coupler | Photo Power Triac Driver | 8Pin DIP-DC



UNIT : mm

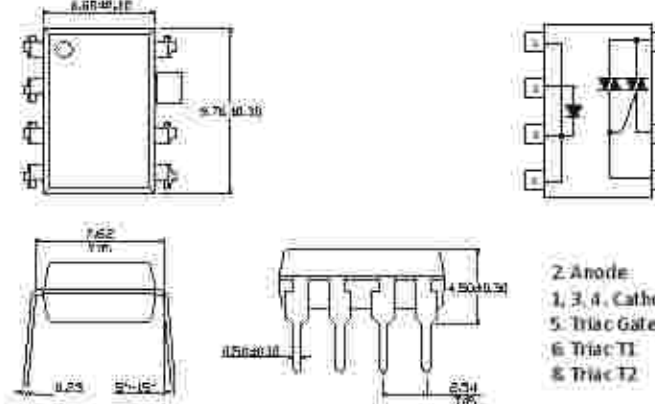


LED Anode 2
LED Cathode 1, 3, 4
Triac Gate 5
Triac T1 6
Triac T2 8

Product	Dimension (mm)	Number of Channels	V_f (V)	V_{fmax} (Max) (V)	V_{ce} (V)	V_{ceH} (V)	$I_{f, rms}$ (mA)	I_{ce} (mA)	T_{case} (°C)	λ_{LED} (nm)
ELP0217	9.7x4.8x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	200	10	-40~85	8000
ELP0218	9.7x4.8x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	100	10	-40~85	8000
ELP0219	9.7x4.8x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	200	10	-40~85	8000
ELP0218	9.7x4.8x3.5	600V VDRM Zero-cross	1.4	600	2.5	50	100	10	-40~85	8000



UNIT : mm



2 Anode
1, 3, 4 Cathode
5 Triac Gate
6 Triac T1
8 Triac T2

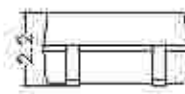
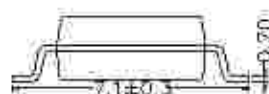
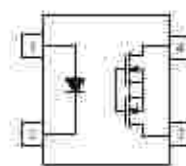
Product	Dimension (mm)	Number of Channels	V_f (V)	V_{fmax} (Max) (V)	V_{ce} (V)	V_{ceH} (V)	$I_{f, rms}$ (mA)	I_{ce} (mA)	T_{case} (°C)	λ_{LED} (nm)
ELP0220	9.7x4.8x3.5	600V VDRM Random Phase	1.4	600	2.5	—	200	10	-40~85	8000
ELP0221	9.7x4.8x3.5	600V VDRM Random Phase	1.4	600	2.5	—	100	10	-40~85	8000
ELP0222	9.7x4.8x3.5	600V VDRM Random Phase	1.4	600	2.5	—	200	10	-40~85	8000
ELP0223	9.7x4.8x3.5	600V VDRM Random Phase	1.4	600	2.5	—	100	10	-40~85	8000

Photo Coupler

Photo Coupler | Solid State Relay | 4pin SOP



UNIT: mm



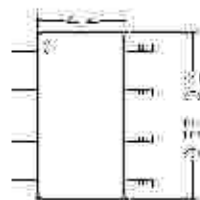
- 1. Anode
- 2. Cathode
- 3.4. Drain

Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (mV/Ω)	I _F (mA)	T _{case} (°C)	V _{iso} (Vrms)
ELM40A	4.4±0.2x3.2	Form A, 400V Mosfet output, AEC-Q101 option	400	120	30	5	-40-85	3750
ELM40A	4.4±0.2x3.2	Form A, 60V Mosfet output, AEC-Q101 option	60	30	10	5	-40-85	3750

Photo Coupler | Solid State Relay | 8pin SOP-2.54mm



UNIT: mm



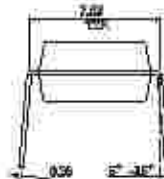
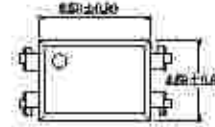
2.54mm
0.20mm
7.0±0.3mm

Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R _{ON} (mV/Ω)	I _F (mA)	T _{case} (°C)	V _{iso} (Vrms)
ELM80A	9.37±0.4±0.2	Form A, 400V Mosfet output, DQ101A	400	120	30	5	-40-85	3750

Photo Coupler | Solid State Relay | 4Pin DIP



UNIT: mm



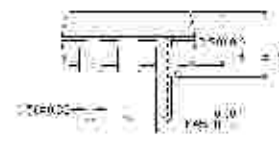
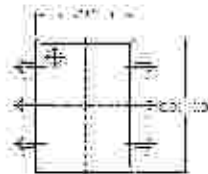
- 1. Anode
- 2. Cathode
- 3. Drain

Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R_{on} (mV)(Ω)	I_{tr} (mA)	T_{case} (°C)	V_{iso} (Vrms)
EL405A	5.5x6.5x3.5	Form A, 50V Muxed output	60	500	2.5	5	-40-85	5000
EL412A	5.5x6.5x3.5	Form A, 250V Muxed output	150	100	25	5	-40-85	5000
EL410A	5.5x6.5x3.5	Form A, 400V Muxed output REC2101 option	400	120	30	5	-40-85	5000
EL410P	5.5x6.5x3.5	Form A, 400V Muxed output REC2101 option	500	60	10	5	-40-85	5000

Photo Coupler | Solid State Relay | 6Pin DIP-DC



UNIT: mm



- 1. Anode
- 2. Cathode
- 4. Drain
- 5. Source
- 6. Drain

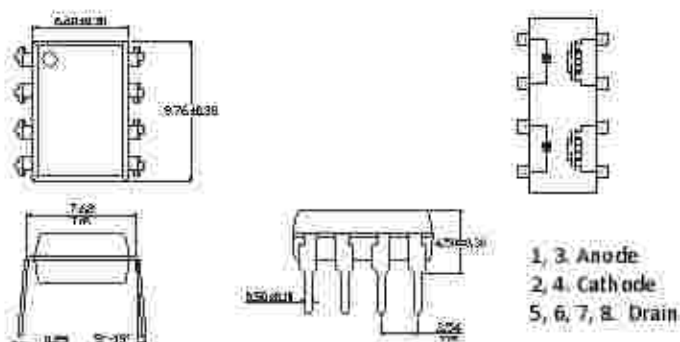
Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R_{on} (mV)(Ω)	I_{tr} (mA)	T_{case} (°C)	V_{iso} (Vrms)
EL505A	8.5x6.5x3.5	Form A, 50V Muxed output	60	500	2.5	5	-40-85	5000
EL525A	8.5x6.5x3.5	Form A, 250V Muxed output	150	100	30	5	-40-85	5000
EL545A	8.5x6.5x3.5	Form A, 400V Muxed output	400	120	30	5	-40-85	5000
EL580A	8.5x6.5x3.5	Form A, 400V Muxed output	500	20	10	5	-40-85	5000
EL505AD	8.5x6.5x3.5	Form A, 50V Muxed output Low RDS(on)	60	500	4	5	-40-100	3750
EL525AD	8.5x6.5x3.5	Form A, 250V Muxed output Low RDS(on)	150	500	4	5	-40-100	3750
EL5105A	8.5x6.5x3.5	Form A, 1500V Muxed output	1800	20	300	5	-40-100	3750
EL5105AD	8.5x6.5x3.5	Form A, 1500V Muxed output Low RDS(on)	1800	20	300	5	-40-125	3750

Photo Coupler

Photo Coupler | Solid State Relay | 8Pin DIP-DC



UNIT: mm

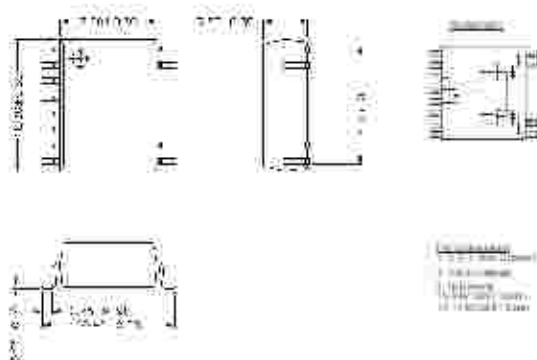


Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R_{on} (Typ)(Ω)	I_{in} (mA)	T_{case} (°C)	V_{iso} (Vrms)
EL800A	8.75x6.35x5	Form A, 100V/10mA output, Dual CH, AECC101 option	400	100	30	5	-40~85	5000
EL800K	8.75x6.35x5	Form A, 100V/10mA output, Dual CH, AECC101 option	100	20	10	5	-40~85	5000

Photo Coupler | Solid State Relay | 16Pin DIP



UNIT: mm

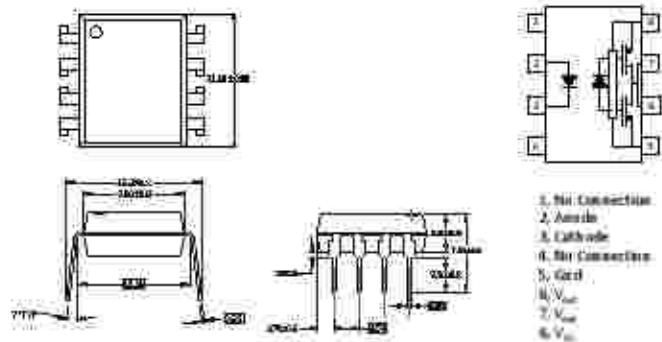


Product	Dimension (mm)	Feature	Load Voltage (V)	Load Current (mA)	R_{on} (Typ)(Ω)	I_{in} (mA)	T_{case} (°C)	V_{iso} (Vrms)
EV16100A	12.7x7.62x5	Form A, 100V/10mA output, AECC101	100	10	50	5	-40~85	5000

Photo Coupler | IGBT Gate Driver | 8pin Wide Body DIP-DC



UNIT: mm



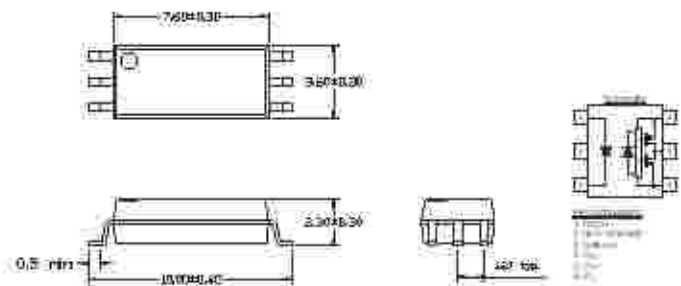
- 1. Pin Connection
- 2. Anode
- 3. Cathode
- 4. Pin Connection
- 5. Gnd
- 6. V_{in}
- 7. V_{in}
- 8. V_{in}

Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F1} (mA)	IFLH (%)	IFHL (%)	CMR (V/μs)	T_{amb} (°C)	VLED (V/mm)
ELW312U	11 (Wide) 2.5	Rel to Rel Output 2.5A	15-30	5	400	400	10000	-40-110	5000
ELW312I	11 (Wide) 2.5	Rel to Rel Output 2.5A	15-30	5	400	400	20000	-40-110	5000
ELW315U	11 (Wide) 2.5	Rel to Rel Output 1A	15-30	3	400	400	10000	-40-110	5000
ELW315I	11 (Wide) 2.5	Rel to Rel Output 1A	15-30	3	400	400	20000	-40-110	5000

Photo Coupler | IGBT Gate Driver | 6PIN-LONG CREEPAGE-DC



UNIT: mm

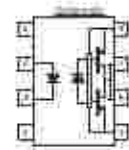
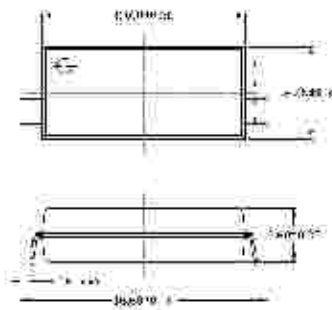


Product	Dimension (mm)	Feature	Supply Voltage (V)	I_{F1} (mA)	IFLH (%)	IFHL (%)	CMR (V/μs)	T_{amb} (°C)	VLED (V/mm)
EL272U	7.6x3.8x2.5	Rel to Rel Output 1A	15-30	3	300	300	10000	-40-110	5000
EL272I	7.6x3.8x2.5	Rel to Rel Output 1A	15-30	3	300	300	20000	-40-110	5000
EL272U	7.6x3.8x2.5	Rel to Rel Output 2.5A	15-30	5	300	300	10000	-40-110	5000
EL272I	7.6x3.8x2.5	Rel to Rel Output 2.5A	15-30	5	300	300	20000	-40-110	5000
EL275U	7.6x3.8x2.5	Rel to Rel Output 1A	15-30	5	400	400	10000	-40-110	5000
EL275I	7.6x3.8x2.5	Rel to Rel Output 1A	15-30	5	400	400	20000	-40-110	5000

Photo Coupler | IGBT Gate Driver | 8pin 15mm-LLSOP-DC



UNIT: mm



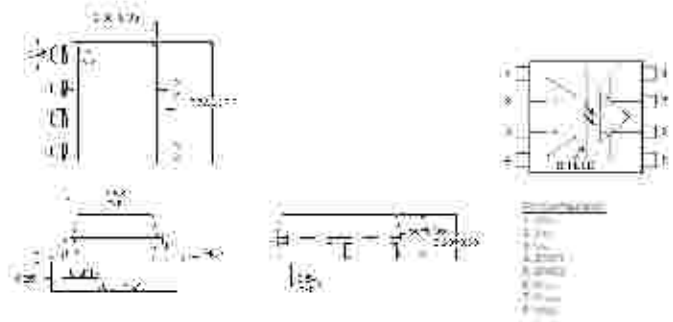
- Pin Configuration:
- 1: Pin 1 (V_{CC})
 - 2: Pin 2 (V_{CC})
 - 3: Pin 3 (V_{CC})
 - 4: Pin 4 (V_{CC})
 - 5: Pin 5 (V_{CC})
 - 6: Pin 6 (V_{CC})
 - 7: Pin 7 (V_{CC})
 - 8: Pin 8 (V_{CC})

Product	Dimension (mm)	Feature	Supply voltage (V)	I _{CC} (mA)	τ _{FLH} (ns)	τ _{FL} (ns)	CMR (V/μs)	T _{case} (°C)	V _{ISO} (Vrms)
EA4017U	15.00±0.1, 5.00±0.1	Full to Full Output, 3A (with Creegate-GTH500)	1.5-5	5	300	300	200V/μs	-40-105	2500

Photo Coupler | Isoamp | 8PIN-DIP



UNIT: mm

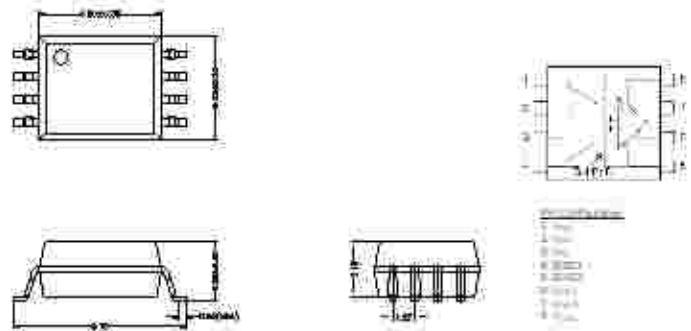


Product	Dimension (mm)	Feature	Supply voltage (VDD1, VDD2)(V)	Gain	Gain error (25°C)	Input voltage (mV)	T _{max} (°C)	V _{iso} (Vrms)
ES7840	8.75x6.6x3.5	Amping, Low gain error	5	5	±1%	±200	40-105	5000

Photo Coupler | Isoamp | 8pin SDIP



UNIT: mm



Product	Dimension (mm)	Feature	Supply voltage (VDD1, VDD2)(V)	Gain	Gain error (25°C)	Input voltage (mV)	T _{max} (°C)	V _{iso} (Vrms)
ES784E	8.6x6.6x2.8	Amping, Low gain error	5	5	±1%	±200	40-105	5000



SEMI POWER

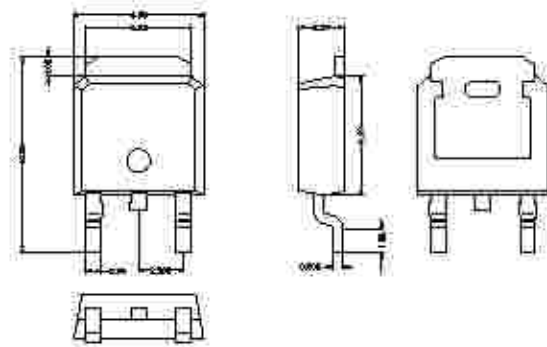
304 TO Series

307 DFN Series

Semi Power 4 TO Series



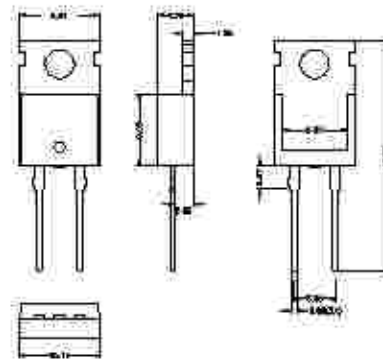
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage (V)
TO-254-L	6.0*10*2.3	Exposed	2	SiC MOSFET - Si MOSFET	500



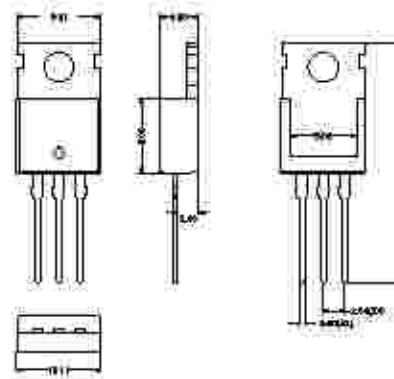
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage (V)
TO-254-BL	12.11*28.78*4.5	Through Hole	2	SiC MOSFET	850/1200



UNIT: mm

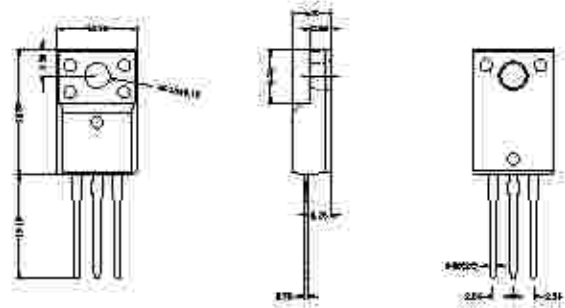


Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage (V)
TO-254-BL	12.11*28.78*4.5	Through Hole	2	SiC MOSFET - Si MOSFET	850/1200

Semi Power | TO Series



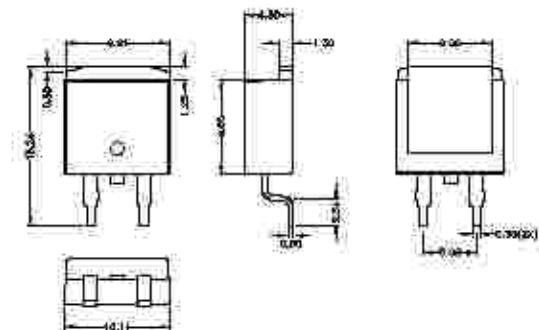
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
TO-262AL	12.1x8.3x7.1	Through hole	2	SiC MOSFET / Si MOSFET	600/1200



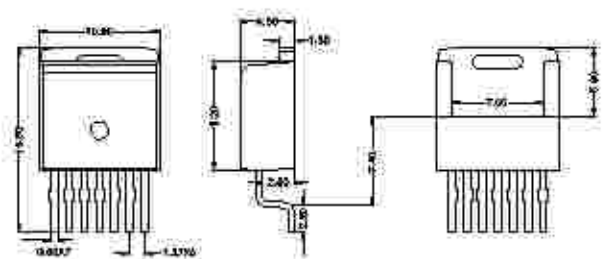
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
TO-262BL	12.1x8.3x4.5	SMD/SMT	2	SiC MOSFET	500/1200



UNIT: mm

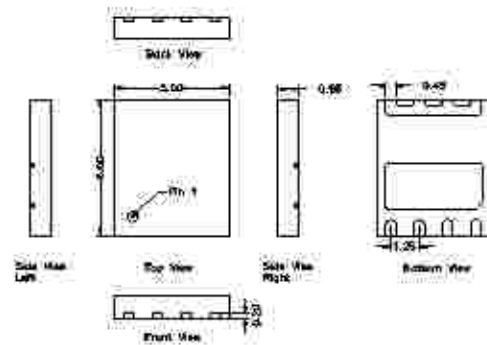


Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
TO-262DL	10.2x8.6x4.5	SMD/SMT	2	SiC MOSFET	600/1200/1700

Semi Power | DFN Series:



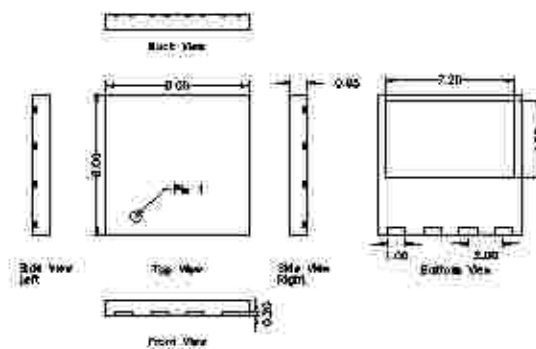
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
DFN 5x8-5L	5x8x0.5L	SMD/SMT	5	SiC MOSFET - Si MOSFET - GAN Transistor	150



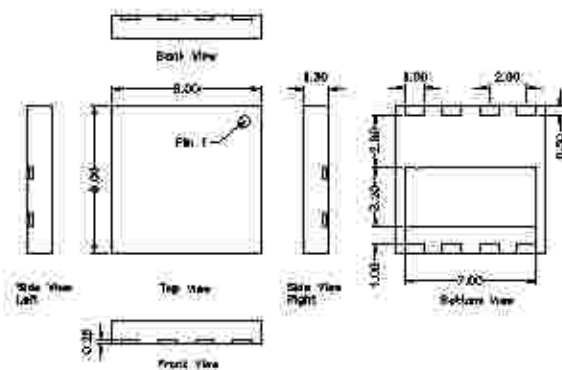
UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
DFN 6x8-5L	6x8x0.5L	SMD/SMT	5	SiC IGBT - SiC MOSFET - Si MOSFET	150



UNIT: mm



Product	Dimension(mm)	Mounting Style	Pins	Device Type	Breakdown Voltage [V]
DFN 6x8-5L	6x8x0.5L	SMD/SMT	5	GAN Transistor	150

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