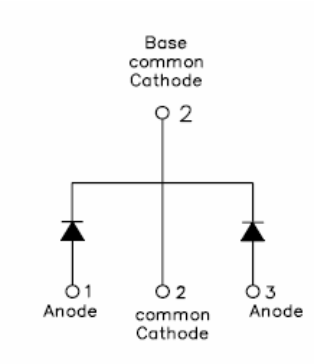
Technical Data
Data Sheet N0304, Rev. -

Green Products

MUR1560CT ULTRAFAST PLASTIC RECTIFIER

Applications:

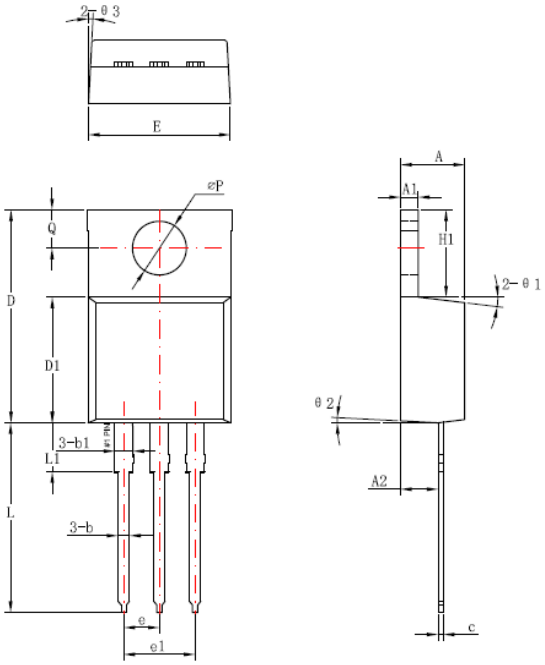
- Switching Power Supply
- Power Switching Circuits
- General Purpose



Features:

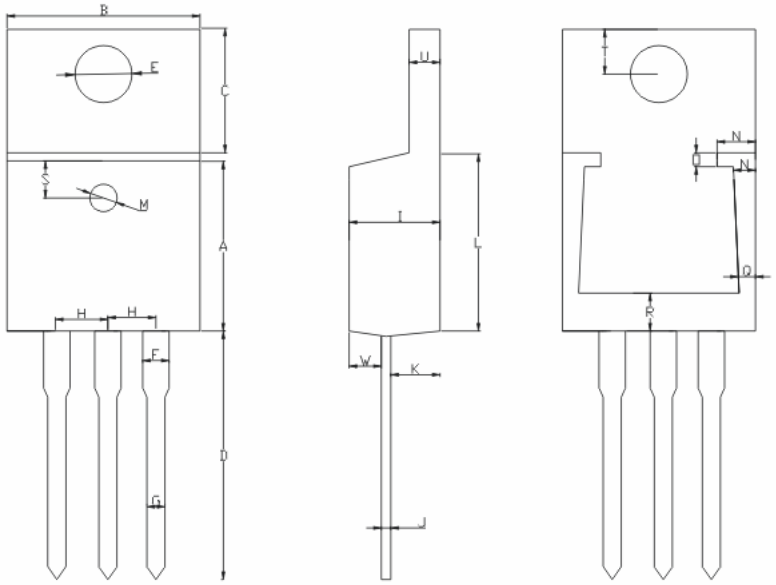
- Ultra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb − Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm



Symbol	Dimensions in millimeters		
	Min	Typical	Max
A	4.42	4.57	4.72
A1	1.17	1.27	1.37
A2	2.59	2.69	2.89
b	0.71	0.81	0.96
b1		1.27	
c	0.36	0.38	0.61
D	14.94	15.24	15.54
D1	8.85	9.00	9.15
E	10.01	10.16	10.31
e		2.54	
e1		5.06	
H1	6.04	6.24	6.44
L	12.7	13.56	13.78
L1		3.5	
ΦP	3.74	3.84	4.04
Q	2.54	2.74	2.94
Θ1		7°	
Θ2		3°	
Θ3		4°	

OPTION1



A:8.5±0.5	B:9.5±0.5	C:6.4±0.5	D:14.1±1
E:3.84±0.03	F:1.27±0.03	G:0.85±0.10	H:2.54±0.025
I:4.6±0.5	J:0.38±0.015	K:2.75±025	L:9.0±0.5
M:1.5±0.05	N:1.8±0.05	O:0.5±0.05	P:1.2±0.05
Q:0.9±0.05	R:3.2±0.05	S:1.55±0.05	T:2.8±0.15
U:1.27±0.05	W:1.27±0.03		

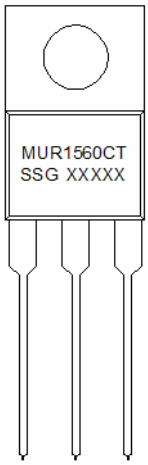
OPTION 2 (SR)

TO-220AB

Technical Data
Data Sheet N0304, Rev. -

Green Products

Marking Diagram:



Where XXXXX is YYWWL

MUR = Device Type
15 = Forward Current (15A)
60 = Reverse Voltage (600V)
CT = Configuration
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
MUR1560CT	TO-220AB (Pb-Free)	50pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	600	V
Max. Average Forward	$I_{F\ (AV)}$	50% duty cycle @Tc=100°C, rectangular wave form	15	A
Max. Peak One Cycle Non-Repetitive Surge Current (Per leg)	I_{FSM}	8.3ms, Half Sine pulse	110	A

Electrical Characteristics:

Technical Data
Data Sheet N0304, Rev. -

Green Products

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop* (per leg)	V_{F1}	@ 7.5A, Pulse, T_J = 25°C	2.2	V
	V_{F2}	@ 7.5A, Pulse, T_J = 125°C	2.0	V
Max. Reverse Current*	I_{R1}	@V_R = rated V_R T_J = 25°C	5.0	μA
	I_{R2}	@V_R = rated V_R T_J = 125°C	50	μA
Max. Reverse Recovery Time	t_{rr}	I_F=500mA, I_R=1A,and I_{rm}=250mA	50	ns

* Pulse width < 300 μs, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T_{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.0	°C/W
Approximate Weight	wt	-	2	g
Case Style	TO-220AB			

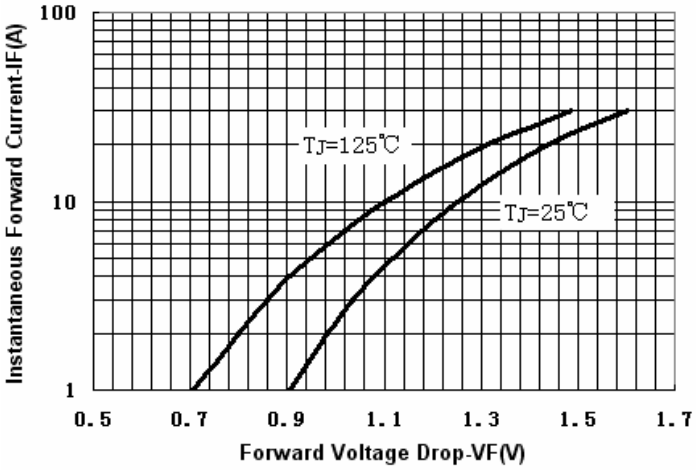


Fig.1-Typical Forward Voltage Drop Characteristics

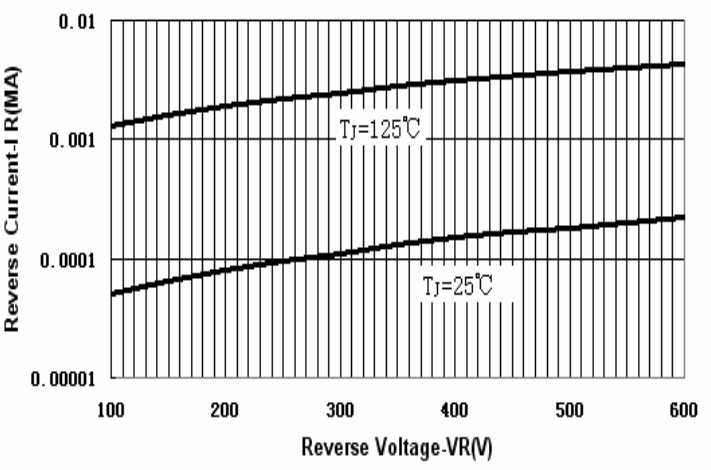


Fig.2-Typical Values of Reverse Current Vs. Reverse Voltage

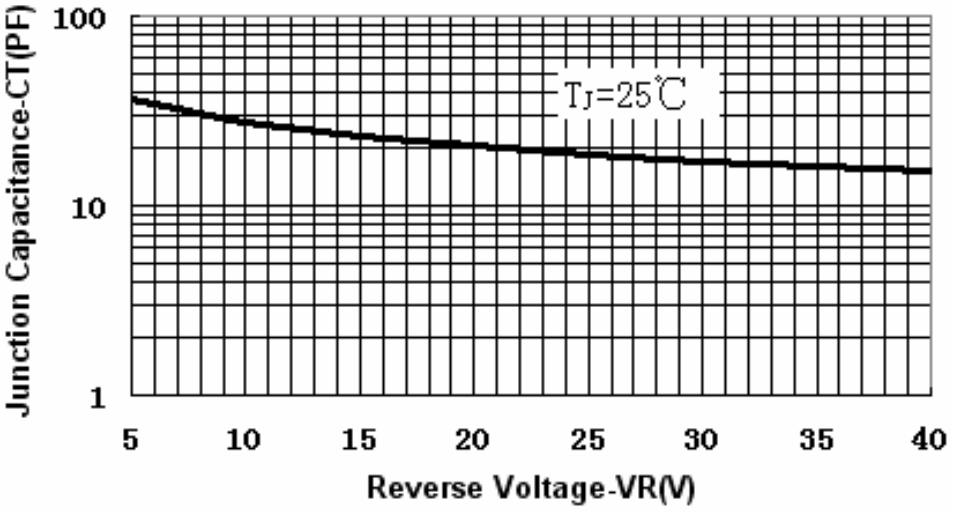


Fig.3-Typical Junction Capacitance Vs.Reverse Voltage

Technical Data
Data Sheet N0304, Rev. -

Green Products