

isc N-Channel MOSFET Transistor

IRFS3206

• FEATURES

- With TO-263(D2PAK) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



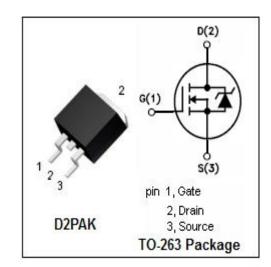
- Power supply
- · Switching applications

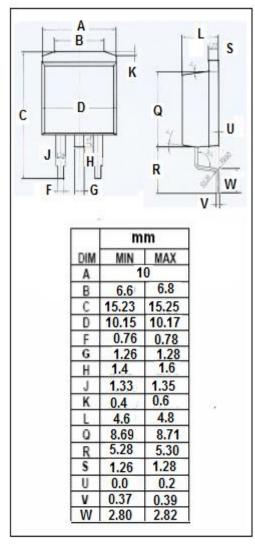


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V_{GSS}	Gate-Source Voltage	±20	۸V
I _D	Drain Current-Continuous;Tc=25℃ Tc=100℃	210 150	А
I _{DM}	Drain Current-Single Pulsed	840	А
P _D	Total Dissipation	300	W
Tj	Operating Junction Temperature	175	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.5	°C/W	
Rth(ch-a)	h(ch-a) Channel-to-ambient thermal resistance		°C/W	





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.15mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =75A		2.4	3.0	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V;Tc=25°C V _{DS} =45V; V _{GS} = 0V; Tc=125°C			20 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =75A, V _{GS} = 0 V			1.3	V



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