

Isc N-Channel MOSFET Transistor

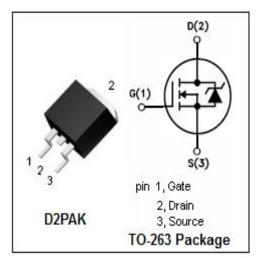
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• FEATURES

- · With To-263(D2PAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



Switching applications

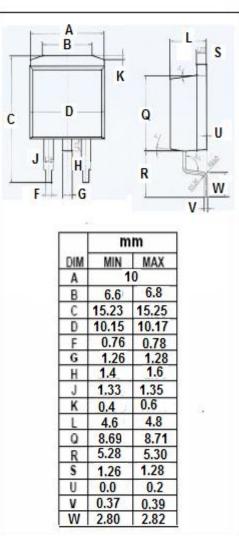


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	75	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	80 56	А
I _{DM}	Drain Current-Single Pulsed	350	А
P _D	Total Dissipation @Tc=25℃	140	W
T _{ch}	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.05	°C/W	
Rth(ch-a)	Rth(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	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	75			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.1mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =46A		7.34	9.0	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =75V; V _{GS} = 0V;Tj=25℃ V _{DS} =60V; V _{GS} = 0V;Tj=125℃			20 250	μ А
V _{SDF}	Diode forward voltage	I _{SD} =46A, V _{GS} = 0 Vs			1.3	V



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