

Isc N-Channel MOSFET Transistor

IPB50R250CP

• FEATURES

- With TO-263(D2 PAK) 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



APPLICATIONS

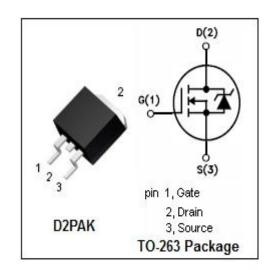
- Power supply
- Switching applications

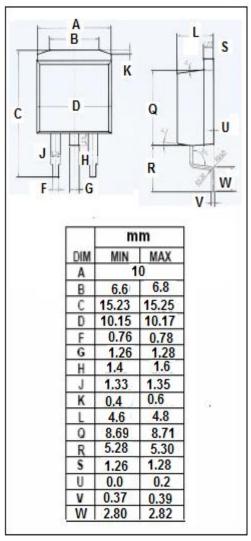
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	V	
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	А	
P _D	Total Dissipation @T _C =25℃ 114		W
Тј	Max. Operating Junction Temperature	ction Temperature -55~150	
T _{stg}	Storage Temperature -55~150		°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.1	°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 = 250uA	500			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 0.52mA	2.5	3	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7.8A		220	250	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _S = 7.8A, V _{GS} = 0V		0.9	1.2	V



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