

INCHANGE SEMICONDUCTOR

Isc N-Channel MOSFET Transistor

IPB60R099P7

• FEATURES

- With To-263(D2PAK) package
- · Low input capacitance and gate charge

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- · Low gate input resistance
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

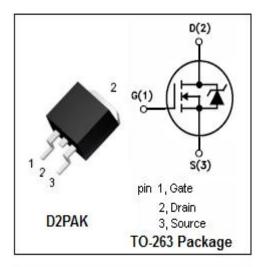
Switching applications

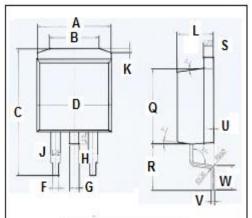
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)								
SYMBOL	PARAMETER	VALUE	UNIT					
V _{DSS}	Drain-Source Voltage	600	V					
V _{GSS}	Gate-Source Voltage	±30	∧v					
ID	Drain Current-ContinuousTc=25℃ Tc=100℃	31 20	A					
I _{DM}	Drain Current-Single Pulsed	100	А					
PD	Total Dissipation @T _C =25°C	117	W					
T_{ch}	Max. Operating Junction Temperature	150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

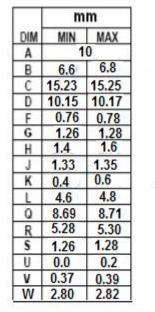
• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.07	°C /W	
Rth(ch-a)	a) Channel-to-ambient thermal resistance		°C/W	

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1.0mA	600			v
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.53mA	3.0		4.0	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10.5A		77	99	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V;Tj=25℃ V _{DS} =600V; V _{GS} = 0V;Tj=150℃			1 100	μA
V _{SDF}	Diode forward voltage	I _{SD} =10.5A, V _{GS} = 0 V		0.9		V



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