

Isc N-Channel MOSFET Transistor

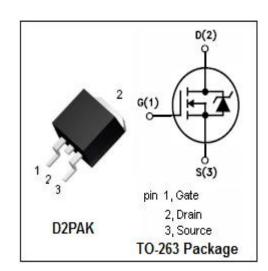
IPB072N15N3G

• 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

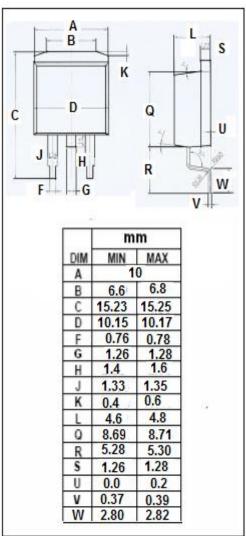


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	120	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-ContinuousTc=25℃ Tc=100℃	100 93	А
I _{DM}	Drain Current-Single Pulsed	400	А
P _D	Total Dissipation @Tc=25℃	300	W
T_ch	Max. Operating Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.5	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°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 = 1mA	120			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.27mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =100A		5.8	7.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =120V; V _{GS} = 0V;Tj=25°C V _{DS} =120V; V _{GS} = 0V;Tj=125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =100A, V _{GS} = 0 V		1.0	1.2	V

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