

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor IPP057N08N3, IIPP057N08N3

FEATURES

- Static drain-source on-resistance: RDs(on) ≤5.7mΩ
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

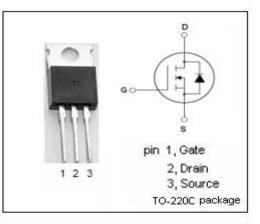
DESCRITION

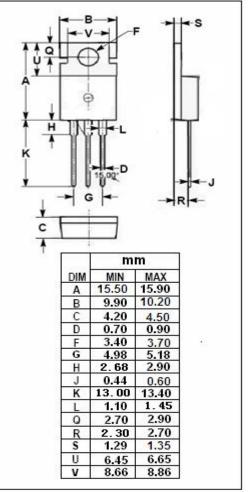
· reliable device for use in a wide variety of applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C) SYMBOL VALUE UNIT PARAMETER 80 V VDSS Drain-Source Voltage V_{GS} Gate-Source Voltage ± 20 V Drain Current-Continuous 80 А I_D **I**DM Drain Current-Single Pulsed 320 А P_{D} Total Dissipation @Tc=25°C 150 W Max. Operating Junction Temperature °C Τį 175 -55~175 °C Tstg Storage Temperature

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	°C/W
Rth(ch-a)	(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	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =1mA	80			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =90 μ A	2.0		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =80A			5.7	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =80V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	IF=80A, V _{GS} = 0 V			1.2	V

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