

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IPA057N08N3,IIPA057N08N3

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FEATURES

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

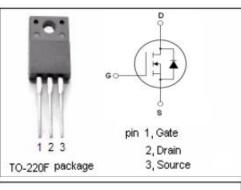
DESCRITION

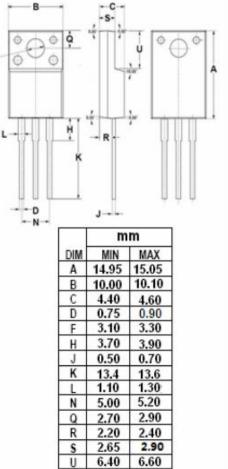
· Device for use in a wide variety of applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C) SYMBOL VALUE UNIT PARAMETER 80 V VDSS Drain-Source Voltage V_{GS} Gate-Source Voltage ± 20 V Drain Current-Continuous 64 А I_D **I**DM Drain Current-Single Pulsed 240 А P_{D} Total Dissipation @Tc=25°C 39 W Max. Operating Junction Temperature °C Τį 175 -55~175 °C Tstg Storage Temperature

• THERMAL CHARACTERISTICS

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Rth(ch-c) Channel-to-case thermal resistance	3.8	°C/W





isc website: www.iscsemi.cn

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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; I _D =1mA	80			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =90uA	2.0		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =60A			5.7	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} = 0V			100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =80V; V _{GS} = 0V			1	μ Α
V _{SD}	Diode forward voltage	I _{DR} =60A, V _{GS} = 0 V			1.2	V



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