

isc N-Channel MOSFET Transistor

IPD088N06N3G

• FEATURES

- With TO-252(DPAK) packaging
- With low gate drive requirements
- · Very high commutation ruggedness
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Switching applications
- LCD&PDP TV
- PC silverbox
- · UPS and solar

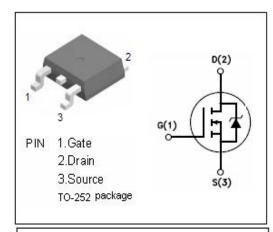


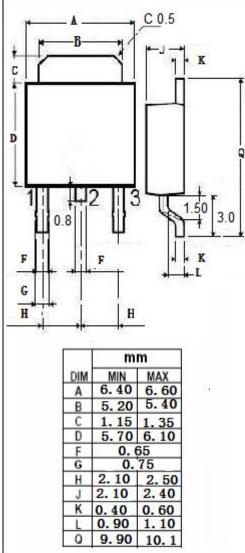
• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	60	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	$\begin{array}{ccc} \text{Drain Current-Continuous@T}_{\text{\tiny C}} = 25^{\circ}\!$		А	
I _{DM}	Drain Current-Single Pulsed	200	А	
P_D	Total Dissipation	71	W	
Tj	Operating Junction Temperature -55~175		$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	2.1	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°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	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.034mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =50A		7.1	8.8	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V@Tj=25°C Tj=125°C			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} =50A, V _{GS} = 0 V			1.2	V

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