

isc N-Channel MOSFET Transistor IPD033N06N, IIPD033N06N

FEATURES

- Static drain-source on-resistance: R_Ds(on)≤3.3mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

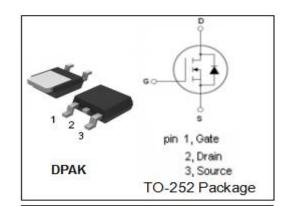
· Optimized for synchronous rectification

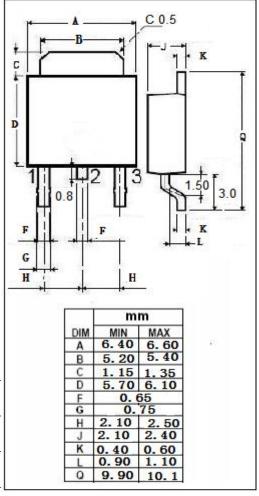
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	60	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	90	Α	
I _{DM}	Drain Current-Single Pulsed 360		А	
P _D	Total Dissipation @T _C =25°C	25 °C 107		
Tj	Max. Operating Junction Temperature 17		$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.4	°C/W
Rth(j-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	VDS=VGS; I _D =50 μ A	2.1		3.3	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =90A			3.3	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V; V _{DS} = 0V			0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =60V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _F =45A, V _{GS} = 0V			1.2	V

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