

isc N-Channel MOSFET Transistor IPD068N10N3,IIPD068N10N3

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤6.8mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

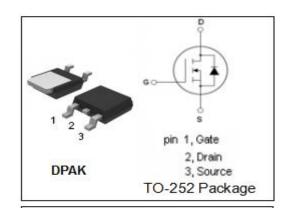
· High frequency switching

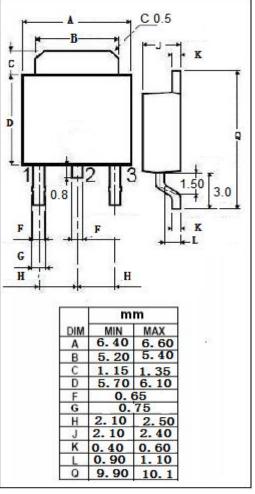
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous	90	Α	
I _{DM}	Drain Current-Single Pulsed	360	А	
P _D	Total Dissipation @T _C =25°C 150		W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1	°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	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =90 μ A	2		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =90A			6.8	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V			0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			1	μ А
V _{SD}	Diode forward voltage	I _F =90A, V _{GS} = 0V			1.2	V

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