

isc N-Channel MOSFET Transistor IPD082N10N3,IIPD082N10N3

FEATURES

- Static drain-source on-resistance:
 - Ros(on)≤8.2mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

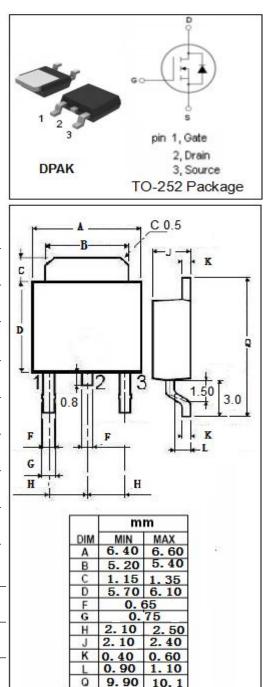
DESCRITION

· Ideal for high-frequency switching and synchronous rectification

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	100	100 V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	80	А				
I _{DM}	Drain Current-Single Pulsed	320	А				
PD	Total Dissipation @Tc=25°C	125	W				
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	Storage Temperature	-55~175	°C				

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.2	°C /W
Rth(j-a)	Rth(j-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; I _D =1mA	100			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; ID=75 µ A	2		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =73A			8.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =80A, V _{GS} = 0V			1.2	V

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