

isc N-Channel MOSFET Transistor IPD122N10N3,IIPD122N10N3

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤12.2mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

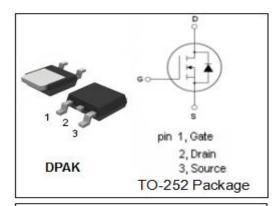
· High frequency switching

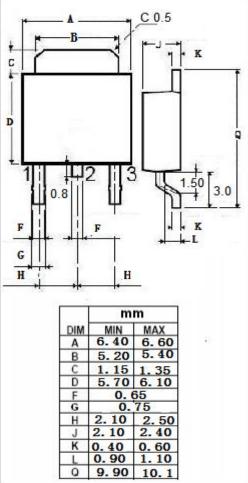
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	100	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	59	А	
I _{DM}	Drain Current-Single Pulsed 236		А	
P _D	Total Dissipation @T _C =25°C	94	W	
Tj	Max. Operating Junction Temperature	175	$^{\circ}$	
T _{stg}	Storage Temperature -55~17		$^{\circ}$ C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	1.6	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	75	°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	100			V			
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =46 μ A	2		3.5	V			
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =46A			12.2	mΩ			
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V			0.1	μА			
I _{DSS}	Drain-Source Leakage Current	V _{DS} =100V; V _{GS} = 0V			1	μА			
V_{SD}	Diode forward voltage	I _F =46A, V _{GS} = 0V			1.2	V			

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