

isc N-Channel MOSFET Transistor IPD200N15N3,IIPD200N15N3

FEATURES

- Static drain-source on-resistance: $R_{\text{DS}}(on) {\leqslant} 20 m_{\Omega}$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

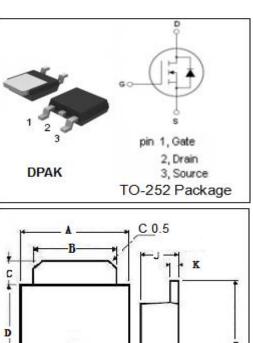
High frequency switching

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C

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SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	150	V			
V_{GS}	Gate-Source Voltage	±20	V			
ID	Drain Current-Continuous	50	А			
I _{DM}	Drain Current-Single Pulsed	200	А			
PD	Total Dissipation @T _c =25°C	150	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	°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	150			v
V _{GS} (th)	Gate Threshold Voltage	VDS=VGS; I _D =90	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			20	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V			0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =120V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _F =50A, V _{GS} = 0V			1.2	V

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