

isc N-Channel MOSFET Transistor

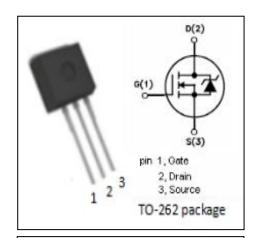
IPI200N15N3

FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤20mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

• Ideal for high frequency switching and sync. Rec.



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	150	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	50	А
I _{DM}	Drain Current-Single Pulsed	200	А
P _D	Total Dissipation @T _C =25°C	150	W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}\!$

mm MIN MAX 2.87 0.97 24.02 6.00 D2 9.90 10.39 2.54BSC 1.25 1.50 H2 1.31 13.34 14.10 3.30 4.06 0.95 1.15

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	°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; ID = 1mA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =90 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =50A			20	mΩ
		V _{es} =8V; I _D =25A			20	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V;V _{DS} =0V			100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =120V; V _{GS} = 0V			1	μА
		V _{DS} =120V; V _{GS} = 0V; T _j = 125℃			100	μА
V _{SD}	Diode forward voltage	IF =50A; V _{GS} = 0 V			1.2	V

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