

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTX200N10L2

• FEATURES

- With TO-247 packaging
- · With low gate drive requirements
- · Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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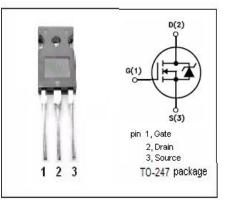
Switching applications

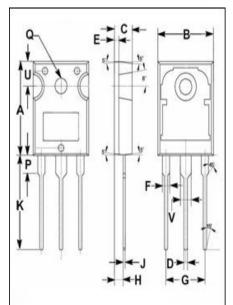
• ABSOL			
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GSS}	Gate-Source Voltage	±30	∧v
lo	Drain Current-Continuous@Tc=25℃ Tc=100℃	200 160	A
I _{DM}	Drain Current-Single Pulsed	500	A
P _D	Total Dissipation	1040	W
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

			UNIT °C/W
SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.12	°C/W

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	500			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =3.0mA	2.0		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =100A			11	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.2	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;@Tc=25℃ V _{DS} = 100V; V _{GS} = 0V;Tc=125℃			10 250	μA
VSDF	Diode forward voltage	I _{SD} =100A, V _{GS} = 0 V			1.4	V



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