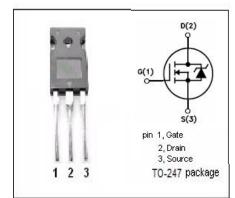


isc N-Channel MOSFET Transistor

IXTH130N10T

• 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



APPLICATIONS

· Switching applications



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GSS}	Gate-Source Voltage	±20	V
l _D	Drain Current-Continuous	130	А
I _{DM}	Drain Current-Single Pulsed	300	А
P _D	Total Dissipation	360	W
Tj	Operating Junction Temperature	-55~175	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

10.80

2.40

0.50

19.50

3.90

3.30

5.20 2.90 20.50

Н

J

K

Q

U

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.42	°C/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =25A			9.1	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.2	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;@Tc=25°C V _{DS} = 100V; V _{GS} = 0V;Tc=150°C			5 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =25A, V _{GS} = 0 V			1.0	V



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