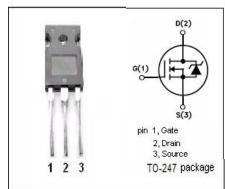


isc N-Channel MOSFET Transistor

IXTH60N15

• 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	150	V
V_{GSS}	Gate-Source Voltage	±30	V
l _D	Drain Current-Continuous	60	A
I _{DM}	Drain Current-Single Pulsed	240	A
P _D	Total Dissipation	275	W
T _j	Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

mm MIN MAX 19.80 20.20 15.40 15.80 5.10 4.90 0.90 1.10 1.40 1.60 1.90 G 10.80 H 2.40 0.50 K 19.50 20.50 P 3.90 Q 3.30

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance	0.4	°C/W		

U

5.20

isc N-Channel MOSFET Transistor

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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	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A			33	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 150V; V _{GS} = 0V;@Tc=25°C V _{DS} = 150V; V _{GS} = 0V;Tc=125°C			25 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =60A, V _{GS} = 0 V			1.5	V



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