

isc N-Channel MOSFET Transistor

IXTH75N15

• FEATURES

- Drain Source Voltage-
- : V_{DSS}= 150V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 23m \Omega (Max)$
- · Fast Switching
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



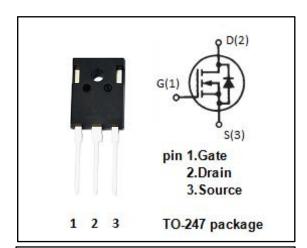
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

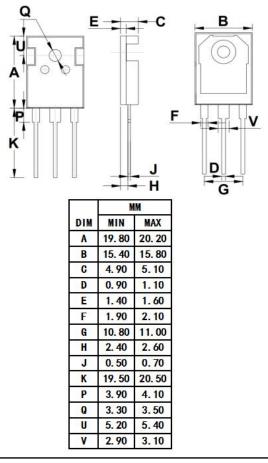
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous	75	Α
I _{DM}	Orain Current-Single Plused 300		Α
P _D	Total Dissipation @T _C =25°C	330	W
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$
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• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.35	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250uA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250uA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 37.5A			23	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =150V; V _{GS} = 0 V _{DS} =150V; V _{GS} = 0;T _J =125°C			25 250	μΑ
V _{SD}	Diode Forward On-voltage	I _F = 75A;V _{GS} = 0			1.5	V

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