

isc N-Channel MOSFET Transistor

IXTH88N15

• FEATURES

- Drain Source Voltage-
- : V_{DSS}= 150V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 22m \Omega (Max)$
- · Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



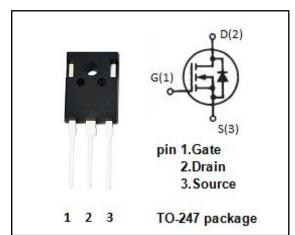
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives

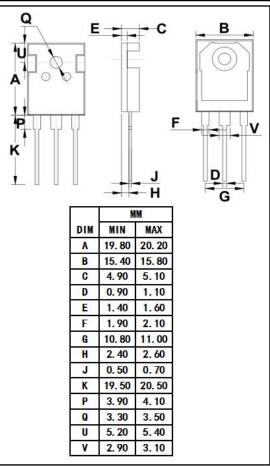
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	150	V	
V _{GS}	Gate-Source Voltage-Continuous	±20	V	
I _D	Drain Current-Continuous	88	Α	
I _{DM}	Drain Current-Single Plused	352	Α	
P_D	Total Dissipation @T _C =25°C 400		W	
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.31	°C/W







isc N-Channel MOSFET Transistor

IXTH88N15

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 = 44A			22	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} =150V; V _{GS} = 0 V _{DS} =150V; V _{GS} = 0;T _J =125°C			25 1000	μΑ
V _{SD}	Diode Forward On-voltage	I _F = 88A;V _{GS} = 0			1.5	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.