

isc N-Channel MOSFET Transistor

IXTH96N25T

• FEATURES

- Drain Source Voltage-
- : V_{DSS}= 250V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 44m \Omega (Max)$
- · Fast Switching
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

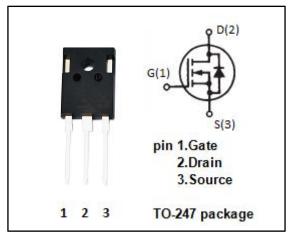
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives
- · Robotics and Servo Controls

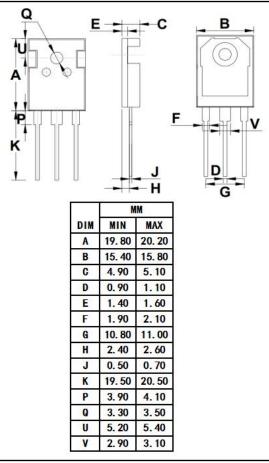
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	V		
V _{GS}	Gate-Source Voltage-Continuous ± 20			
l _D	Drain Current-Continuous	76	Α	
I _{DM}	Drain Current-Single Plused 170		Α	
P _D	Total Dissipation @T _C =25°C 460		W	
Tj	Max. Operating Junction Temperature -55~150		$^{\circ}$	
T _{stg}	Storage Temperature	emperature -55~150		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.27	°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 =1mA	250			V			
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250uA	3		5	V			
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 38A			44	mΩ			
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA			
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =250V; V _{GS} = 0 V _{DS} =250V; V _{GS} = 0;T _J =125°C			2 200	μΑ			
V _{SD}	Diode Forward On-voltage	I _F = 76A;V _{GS} = 0			1.5	V			

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