

isc N-Channel MOSFET Transistor

IXTQ88N28T

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 250V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 37m \Omega (Max)$
- · Fast Switching
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



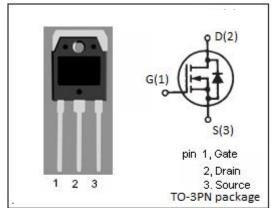
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives
- · Robotics and Servo Controls

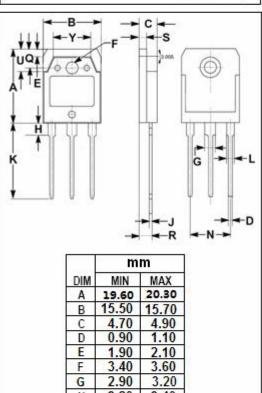
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	86	Α
I _{DM}	Drain Current-Single Plused	190	Α
P _D	Total Dissipation @T _C =25℃	540	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	0.23	°C/W	





DIM	MIN	MAX
Α	19.60	20.30
В	15.50	15.70
О	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Υ	9.90	10.10



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• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT		
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250uA	250			V		
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	3		5	V		
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 43A			37	mΩ		
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±200	nA		
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =250V; V _{GS} = 0 V _{DS} =250V; V _{GS} = 0;T _J =150°C			3 250	μΑ		
V _{SD}	Diode Forward On-voltage	I _F = 86A;V _{GS} = 0			1.5	V		

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