

isc N-Channel MOSFET Transistor

IXTQ86N20T

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 200V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 29m Ω (Max)
- · Fast Switching
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



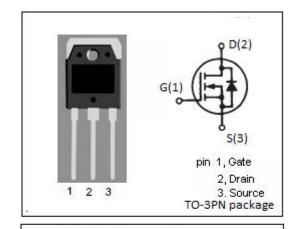
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives
- · Robotics and Servo Controls

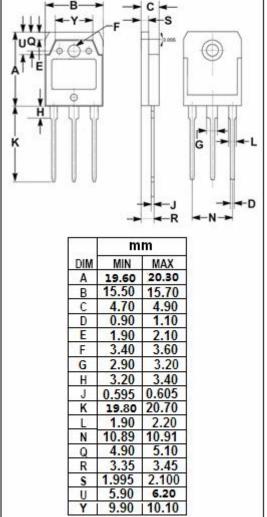
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	86	Α
I _{DM}	Drain Current-Single Plused	260	Α
P _D	Total Dissipation @T _C =25℃	480	W
Tj	Max. Operating Junction Temperature -55~175		$^{\circ}$
T _{stg}	Storage Temperature -55~1		$^{\circ}$ C

• THERMAL CHARACTERISTICS

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







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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 =250μA	200			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 = 43A			29	mΩ		
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±200	nA		
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =200V; V _{GS} = 0 V _{DS} =200V; V _{GS} = 0;T _J =150°C			1 250	μΑ		
V _{SD}	Diode Forward On-voltage	I _F = 86A;V _{GS} = 0			1.5	V		

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