

isc N-Channel MOSFET Transistor

IXTQ200N06P

• FEATURES

- · Drain Source Voltage-
 - : V_{DSS}= 60V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 6m Ω (Max)
- Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



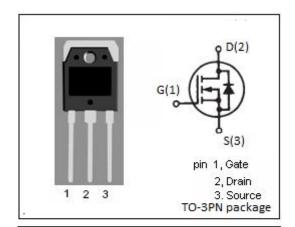
- · Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- · AC and DC Motor Drives
- · Robotics and Servo Controls

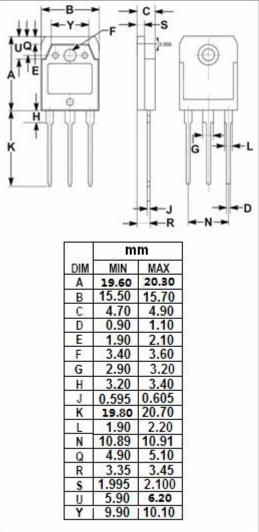
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous ±30		V
I _D	Drain Current-Continuous 200		Α
I _{DM}	Drain Current-Single Plused 400		Α
P _D	Total Dissipation @T _C =25℃ 714		W
Tj	Max. Operating Junction Temperature	perature -55~175	
T _{stg}	Storage Temperature -55~150		$^{\circ}\!\mathbb{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.21	°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	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.5		5	V
I _{GSS}	Gate-Body Leakage Current	V_{GS} = $\pm 20V; V_{DS}$ = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =60V; V _{GS} = 0			25	μΑ
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 60A			6	mΩ
V _{SD}	Diode Forward On-voltage	I _F = 200A, ;V _{GS} = 0			1.5	V

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