

isc N-Channel MOSFET Transistor

IXTQ110N055P

• FEATURES

- Drain Current I_D=110A@ T_C=25℃
- · Drain Source Voltage-
 - : V_{DSS}= 55V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 13.5m Ω (Max)
- · Fast Switching
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

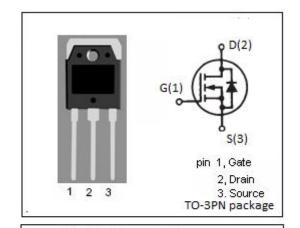
- Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- AC and DC Motor Drives
- · Robotics and Servo Controls

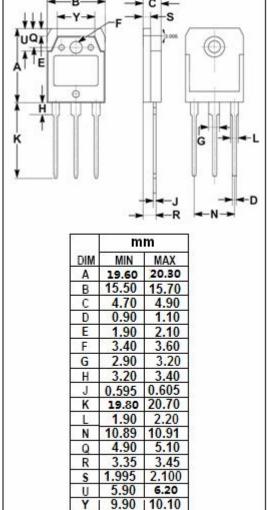
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER VALUE		UNIT	
V_{DSS}	Drain-Source Voltage	55	V	
V _{GS}	Gate-Source Voltage-Continuous ± 20		V	
I _D	Drain Current-Continuous	110	Α	
I _{DM}	Drain Current-Single Plused 250		Α	
P _D	Total Dissipation @T _C =25°C 330		W	
Tj	Max. Operating Junction Temperature	-55~175	$^{\circ}$	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.38	°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	55			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.5		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 55A			13.5	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =55V; V _{GS} = 0			25	μΑ
V _{SD}	Diode Forward On-voltage	I _F =110A, ;V _{GS} = 0			1.5	V

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