

G(

isc N-Channel MOSFET Transistor

IXTH22N50P

D(2)

S(3)

pin 1.Gate

2.Drain 3. Source

• FEATURES

- With TO-3PN packaging
- · With low gate drive requirements
- Easy to drive
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Switching applications

• ABSO	LUTE MAXIMUM RATINGS(Ta=2	1 2 3 TO-247 package				
SYMBO L	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	500	V			
V _{GSS}	Gate-Source Voltage	±30	V			
ID	Drain Current-Continuous	22	A	ĸ		
I _{DM}	Drain Current-Single Pulsed	66	A			
P _D	Total Dissipation	350	W	MM DIM MIN MAX A 19.80 20.20		
Tj	Operating Junction Temperature	-55~150	°C	B 15.40 15.80 C 4.90 5.10 D 0.90 1.10		
T _{stg}	Storage Temperature	-55~150	°C	E1.401.60F1.902.10		
• THER	MAL CHARACTERISTICS	G 10.80 11.00 H 2.40 2.60 J 0.50 0.70				
SYMBOL	PARAMETER	MAX	UNIT	K19.5020.50P3.904.10		
Rth(ch-c)	Channel-to-case thermal resistance	0.35	°C/W	Q 3. 30 3. 50 U 5. 20 5. 40 V 2. 90 3. 10		
	•			1 2.70 5.10		

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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	500			v
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.25mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =11A			270	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.01	μ Α
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V@Tc=25℃ Tc=125℃			5 50	μA
VSDF	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.5	V

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