

isc N-Channel MOSFET Transistor

IXFH48N65X2

FEATURES

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

APPLICATIONS

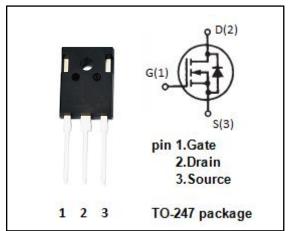
· Switching applications

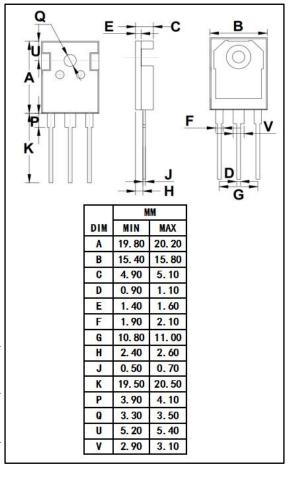
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage 650		V	
V _{GSS}	Gate-Source Voltage	±30	V	
ΙD	Drain Current-Continuous	48	А	
Ірм	Drain Current-Single Pulsed	96	Α	
P_D	Total Dissipation 660		W	
Tj	Operating Junction Temperature	-55~150	°C	
T _{stg}	Storage Temperature	-55~150	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.19	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D = 250uA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =24A			65	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;@Tc=25°C Tc=125°C			10 200	μ А
V _{SDF}	Diode forward voltage	I _{SD} =48A, V _{GS} = 0 V			1.4	V

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