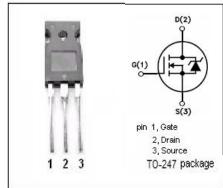


isc N-Channel MOSFET Transistor

IXFH46N65X2

FEATURES

- · With TO-247 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



• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	650	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	46	А	
I _{DM}	Drain Current-Single Pulsed	100	А	
P _D	Total Dissipation	660	W	
T _j	Operating Junction Temperature	-55~150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

mm DIM MIN MAX 19.80 20.20 В 15.40 15.80 C 4.90 D 0.90 E 1.40 F 1.90 2.10 G 10.80 11.00 2.40 H 2.60 J 0.50 0.70 K 19.50 20.50 3.90 Q 3.30 U 5.20 5.40 2.90

• 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	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = $\pm30V$; I_{D} =4mA	3.5		5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =23A			69	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;@Tc=25°C Tc=125°C			25 2000	μА
V _{SDF}	Diode forward voltage	I _{SD} =46A, V _{GS} = 0 V			1.4	V

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