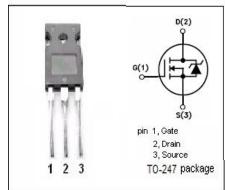


isc N-Channel MOSFET Transistor

IXFH80N65X2

• 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
l _D	Drain Current-Continuous	80	А
I _{DM}	Drain Current-Single Pulsed	160	А
P _D	Total Dissipation	890	W
Tj	Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

10.80

2.40

0.50

19.50

3.90

3.30

5.20 2.90 20.50

Н

J

K

Q

U

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.15	°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 = 1.0mA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =4.0mA	3.5		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A			38	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 V _{DS} = 650V; V _{GS} = 0V;Tc=150°C			50 3000	μА
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0V			1.4	V



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