

isc N-Channel MOSFET Transistor

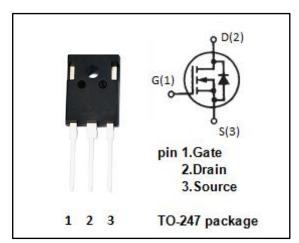
IXKH30N60C5

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤ 125mΩ@V_{GS}=10V
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- · Switched mode power supplies
- · Uninterruptible power supplies

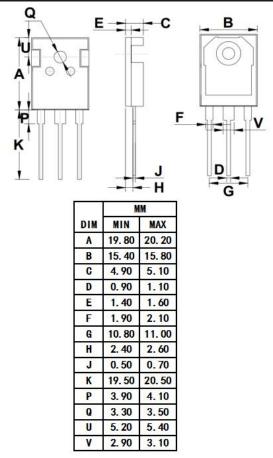


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V _G s	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	30	Α
Tj	Operating Junction Temperature	-55~150	$^{\circ}\!$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.4	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; ID = 250 μ A	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; ID = 1.1mA	2.5	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 16A		125	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		2	μА
V _{SD}	Diode forward voltage	I _F = 16A; V _{GS} = 0V		1.2	V

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