

isc N-Channel MOSFET Transistor

IXTH75N10L2

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤ 11mΩ@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

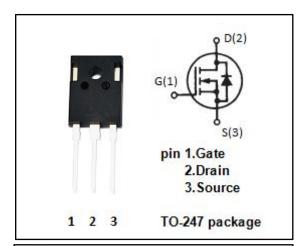
- DC/DC Converter
- Switch-Mode and Resonant-Mode Power Supplies

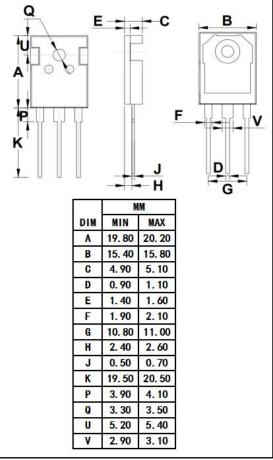
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	75	А
I _{DM}	Drain Current-Single Pulsed	225	А
P _D	Total Dissipation @T _C =25℃	400	W
Tj	Operating Junction Temperature -55~1		$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.31	°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	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 37.5A		21	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		5	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		50	
V _{SD}	Diode forward voltage	I _F = 75A; V _{GS} = 0V		1.4	V



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