

isc N-Channel MOSFET Transistor

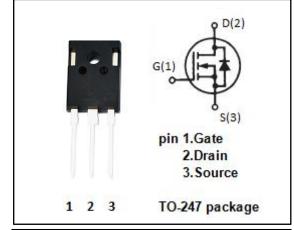
IXTH200N075T

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 5.0 m \Omega @V_{GS} = 10V$
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- DC/DC Converters
- High Current Switching Applications

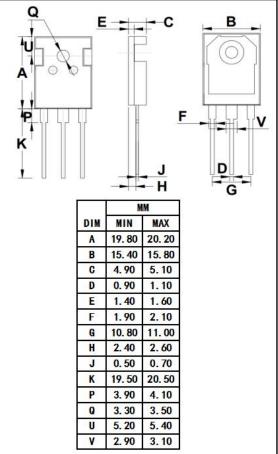


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)				
SYMBOL	PARAMETER	VA		

SYMBOL	PARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage	75	V	
V_{GS}	Gate-Source Voltage ±2		V	
Ι _D	Drain Current-Continuous	200	А	
І _{ОМ}	Drain Current-Single Pulsed	540	А	
P _D	Total Dissipation @T _C =25℃	430	W	
Tj	Operating Junction Temperature	-55~175	°C	
T _{stg}	Storage Temperature	-55~175	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.35	°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	75		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 25A		5.0	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±200	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 = 150°C		250	
V _{SD}	Diode forward voltage	I _F = 25A; V _{GS} = 0V		1.0	V



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