

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXFH76N15T2

• FEATURES

- Static drain-source on-resistance: RDs(on) ≤ 20mΩ@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 Speed Power Switching Applications

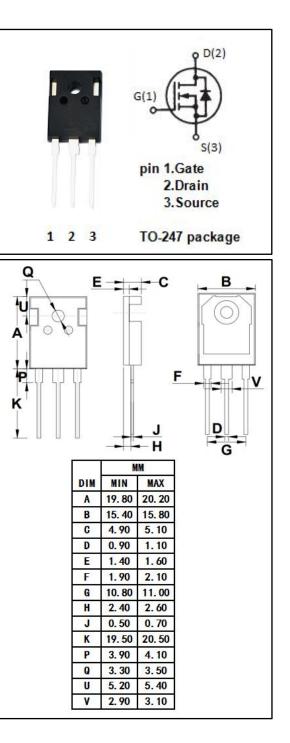
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	v
V_{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	76	А
I _{DM}	Drain Current-Single Pulsed	200	А
P _D	Total Dissipation @T _c =25℃	350	W
Tj	Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C
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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	AMETER MAX UNIT	
R _{th(j-c)}	Junction-to-case thermal resistance	0.43	°C/W

1



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0V; ID = 250 μ A	150		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 = 38A		20	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	- μ Α
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		750	
Vsd	Diode forward voltage	I _F = 38A; V _{GS} = 0V		1.5	V

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