

isc N-Channel MOSFET Transistor

IXFA76N15T2

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

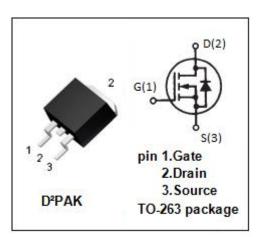
- DC/DC Converters
- · High Speed Power Switching Applications

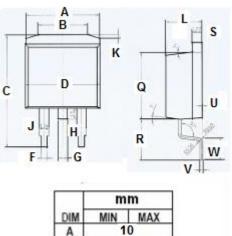
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

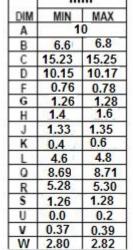
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GS}	Gate-Source Voltage	±20	V
ID	Drain Current-Continuous	76	А
I _{DM}	Drain Current-Single Pulsed	200	А
PD	Total Dissipation @T _c =25°C	350	W
Tj	Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

THERMAL CHARACTERISTICS

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







isc website: www.iscsemi.cn

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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
$R_{\text{DS(on)}}$	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	μA
1035		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		750	
V _{SD}	Diode forward voltage	I _F = 38A; V _{GS} = 0V		1.5	V

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