

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA76N075T

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 12m\Omega@V_{GS}=10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

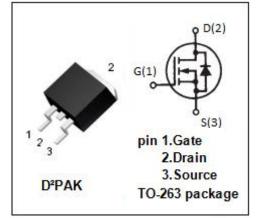
- DC/DC Converters
- High Current Switching Applications

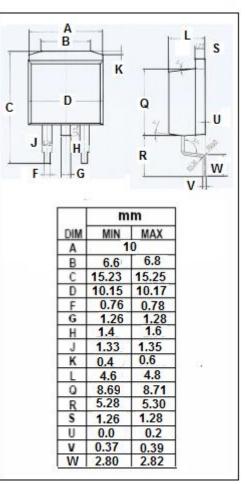
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

* ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER		VALUE	UNIT		
V _{DSS}	Drain-Source Voltage		75	V		
V _{GS}	Gate-Source Voltage		±20	V		
ID	Drain Current-Continuous		76	А		
IDM	Drain Current-Single Pulsed		210	А		
PD	Total Dissipation @T _c =25℃		176	W		
Tj	Operating Junction Temperature		-55~175	°C		
T _{stg}	Storage Temperature		-55~175	°C		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.85	°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	75		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 250 μ A	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 25A		12	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		1	μ Α
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		250	
Vsd	Diode forward voltage	I _F = 25A; V _{GS} = 0V		1.1	V

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