

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTP110N055T

				24 <u></u>
RDS(• Fully cf • 100% a • Minimu perform • APPLIA • DC/DC	drain-source on-resistance: on) \leq 7.0m Ω @V _{GS} =10V haracterized avalanche voltage and of avalanche tested im Lot-to-Lot variations for robust de nance and reliable operation	pin 1, Gate 2, Drain 3, Source TO-220C package		
-	urrent Switching Applications			
SYMBOL	PARAMETER	VALUE	UNIT	φ
V _{DSS}	Drain-Source Voltage	55	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	110	А	
I _{DM}	Drain Current-Single Pulsed	300	Α	↑ mm
PD	Total Dissipation @T _c =25°C	230	W	DIM MIN MAX A 15.50 15.90 B 9.90 10.20
Tj	Operating Junction Temperature	-55~175	°C	C 4.20 4.50 D 0.70 0.90
T _{stg}	Storage Temperature	-55~175	°C	F 3.40 3.70 G 4.98 5.18 H 2.68 2.90
• THERM	MAL CHARACTERISTICS			J 0.44 0.60 K 13.00 13.40 L 1.10 1.45

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

1

Q

R

U

v

2.70

2.30

1.29

6.45 8.66

2.90

2.70

1.35

6.65

8.86



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	55		V
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 100 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 25A		7.0	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			
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		250	μA
V _{SD}	Diode forward voltage	I _F = 25A; V _{GS} = 0V		1.0	V

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