

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA200N055T2

• FEATURES

Static drain-source on-resistance:

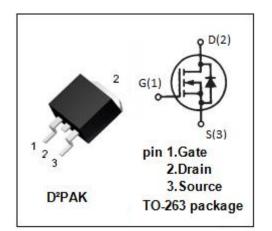
 $R_{DS}(on) \le 4.2m\Omega@V_{GS}=10V$

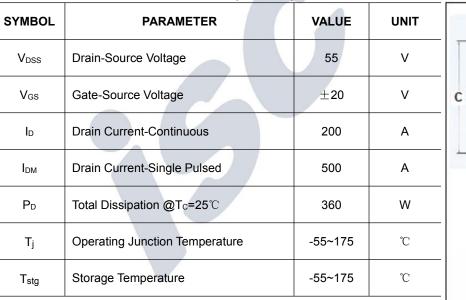
- · Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

- DC/DC Converters
- High Current Switching Applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

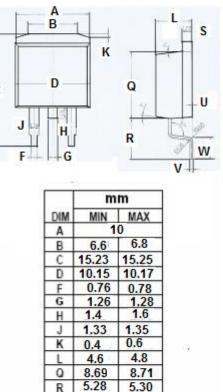




THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	0.42	°C/W

1



1.26

0.0

0.37

2.80

SU

v

W

1.28

0.2

0.39

2.82



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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 = 250 μ A	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 50A		4.2	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		50	
V _{SD}	Diode forward voltage	I _F = 50A; V _{GS} = 0V		1.1	V

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