

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTA300N04T2

FEATURES

Static drain-source on-resistance:

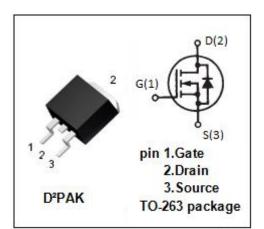
 $R_{DS}(on) \le 2.5m\Omega @V_{GS}=10V$

- · 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

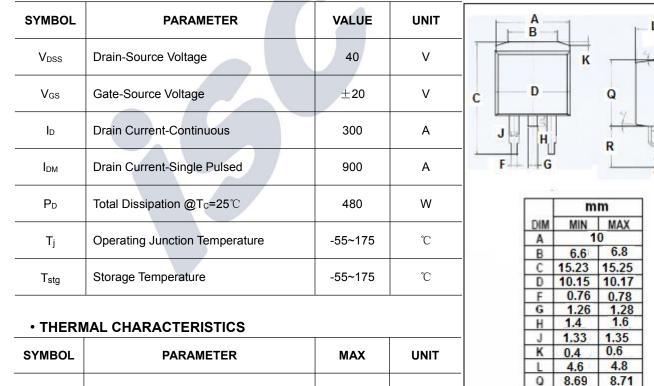
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



S

U

W



0.313

1

R_{th(i-c)}

Junction-to-case thermal resistance

5.28

1.26

0.0

0.37

2.80

R

S

H

v

W

5.30

1.28

0.2

0.39

2.82

°C/W



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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	40		V
$V_{GS(th)}$	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 = 150A		2.5	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	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		150	
V_{SD}	Diode forward voltage	I _F = 100A; V _{GS} = 0V		1.3	V

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