

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTP340N04T4

RDS(• Fully cf • 100% a • Minimu perform • APPLI	drain-source on-resistance: on) ≤ 1.9mΩ@V _{GS} =10V haracterized avalanche voltage and avalanche tested um Lot-to-Lot variations for robust de nance and reliable operation			pin 1, Gate 1 2 3 1 2 3 2, Drain 3, Source TO-220C package
	urrent Switching Applications			
ABSOI	LUTE MAXIMUM RATINGS(Ta=25°	C) VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	40	V	
V _{GS}	Gate-Source Voltage	±15	V	K 15,002 V
ID	Drain Current-Continuous	340	А	
I _{DM}	Drain Current-Single Pulsed	700	А	
PD	Total Dissipation @T _c =25°C	480	W	DIM MIN MAX A 15.50 15.90
Tj	Operating Junction Temperature	-55~175	°C	B 9.90 10.20 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
		MAY		J 0.44 0.60 K 13.00 13.40 L 1.10 1.45 Q 2.70 2.90 P 2.30 2.70

SYMBOL	YMBOL PARAMETER		UNIT	
R _{th(j-c)}	R _{th(j-c)} Junction-to-case thermal resistance		°C <i>I</i> W	

R

S

U

V

2.30

1.29

6.45 8.66 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	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} = ±15V; V_{DS} =0V		±200	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V	5		
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 150°C		750	μA
Vsd	Diode forward voltage	I _F = 100A; V _{GS} = 0V		1.4	V

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