

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTP230N04T4

• FEATURES

- With TO-220F packaging
- High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

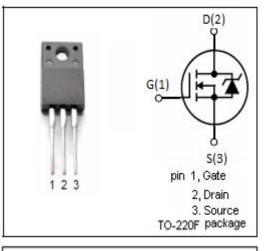
- Power supply
- Switching applications

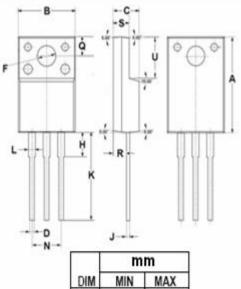
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	40	V			
V _{GSS}	Gate-Source Voltage	±15	∧v			
ID	Drain Current-Continuous@Tc=25℃ Tc=100℃	230 160	Α			
I _{DM}	Drain Current-Single Pulsed	700	A			
PD	Total Dissipation	40	W			
Tj	Operating Junction Temperature	175	°C			
T _{stg}	Storage Temperature	-55~175	°C			

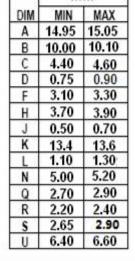
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance 3.75		°C/W	
Rth(ch-a)	-a) Channel-to-ambient thermal resistance		°C/W	

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isc website: www.iscsemi.cn

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	40			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =5V; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =110A			2.9	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±15V;V _{DS} =0V			±0.2	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 40V; V _{GS} = 0V;			5	μA
V _{SDF}	Diode forward voltage	I _{SD} =100A, V _{GS} = 0 V			1.4	V

NOTICE:

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