

isc N-Channel MOSFET Transistor

IXTP450P2

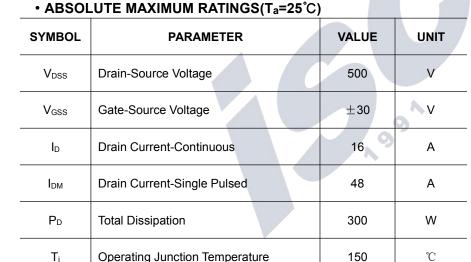
• FEATURES

- · With TO-220 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



THERMAL CHARACTERISTICS

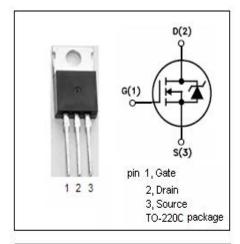
Storage Temperature

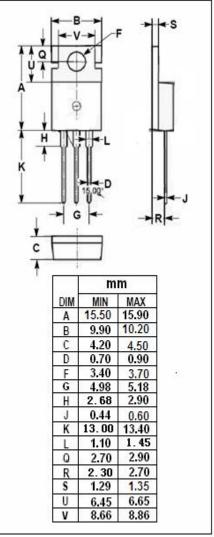
T_{stg}

SYMBOL	PARAMETER	MAX	UNIT		
Rth(ch-c)	Channel-to-case thermal resistance	0.42	°C/W		
Rth(ch-a)	Channel-to-ambient thermal resistance	60	°C/W		

-55~150

 $^{\circ}\!\mathbb{C}$





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8A			330	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm30V;V_{DS}$ = $0V$			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V;Tj=25°C V _{DS} = 100V; V _{GS} = 0V;Tj=125°C			5 25	μА
V _{SDF}	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.3	V



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