

isc N-Channel MOSFET Transistor

IXTP4N80P

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 3.4 \Omega@V_{GS}=10V$
- Fully characterized avalanche voltage and current
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



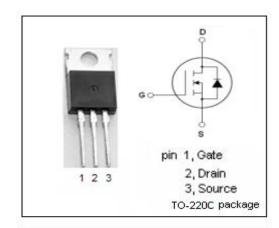
- DC/DC Converter
- Switch-Mode and Resonant-Mode Power Supplies
- Uninterrupted Power Supplies

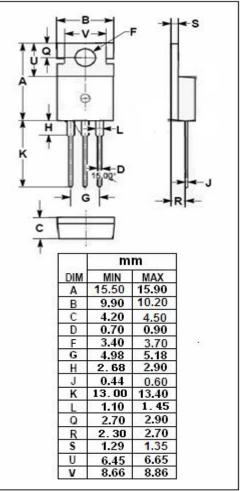
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	VALUE	UNIT	
Drain-Source Voltage	800	V	
Gate-Source Voltage	±30	V	
Drain Current-Continuous	3.6	А	
Drain Current-Single Pulsed	8	А	
Total Dissipation @T _C =25°C	100	W	
Operating Junction Temperature	-55~150	$^{\circ}$ C	
Storage Temperature	-55~150	$^{\circ}$ C	
	Drain-Source Voltage Gate-Source Voltage Drain Current-Continuous Drain Current-Single Pulsed Total Dissipation @Tc=25°C Operating Junction Temperature	Drain-Source Voltage800Gate-Source Voltage ± 30 Drain Current-Continuous3.6Drain Current-Single Pulsed8Total Dissipation @ T_c =25°C100Operating Junction Temperature-55~150	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	1.25	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250 μ A	800		٧
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 100 μ A	3.0	5.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 1.8A		3.4	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS} Drain-	Drain Source Lookage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	μ А
	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		150	
V _{SD}	Diode forward voltage	I _F = 3.6A; V _{GS} = 0V		1.5	V



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