

isc N-Channel MOSFET Transistor

IXTP1N100P

• FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 15\Omega @V_{GS}=10V$
- Fully characterized avalanche voltage and current
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



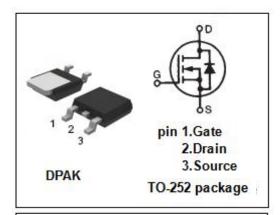
- DC/DC Converter
- · Switch-Mode and Resonant-Mode Power Supplies

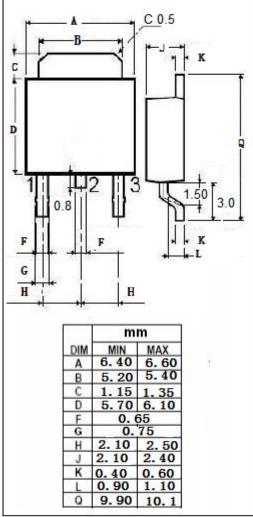
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	1000	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	1.0	Α
I _{DM}	Drain Current-Single Pulsed	1.8	Α
P _D	Total Dissipation @T _C =25°C 50		W
Tj	Operating Junction Temperature -55~150		$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th(j-c)}}$	Junction-to-case thermal resistance	2.5	°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	1000		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID = 50 μ A	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 0.5A		15	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} =0V		±50	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		5	μ А
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		100	
V _{SD}	Diode forward voltage	I _F =1A; V _{GS} = 0V		1.5	V



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