

isc N-Channel MOSFET Transistor

IXTY08N100P

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 20 \Omega @V_{GS}=10V$
- Fully characterized avalanche voltage and current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

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

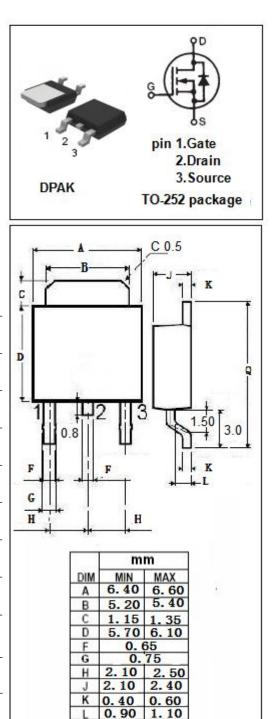
SYMBOL	PARAMETER			
V _{DSS}	Drain-Source Voltage	1000	V	
V _{GS}	Gate-Source Voltage	±20	V	
Ι _D	Drain Current-Continuous	0.8	A	
I _{DM}	Drain Current-Single Pulsed	1.5	А	
P _D	Total Dissipation @Tc=25°C 42		W	
Tj	Operating Junction Temperature -55~15		°C	
T _{stg}	Storage Temperature	-55~150	Ĉ	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	MBOL PARAMETER		UNIT
R _{th(j-c)}	Junction-to-case thermal resistance	2.98	°C /W

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	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	2.0	4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V _{GS} =10V; I _D = 0.4A		20	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		3	- μ Α
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		100	
V_{SD}	Diode forward voltage	I _F = 0.8A; V _{GS} = 0V		1.5	V

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