

isc N-Channel MOSFET Transistor

IXTU4N60P

FEATURES

- Static drain-source on-resistance: $R_{DS}(on) \le 2.0 \Omega@V_{GS}=10V$
- Fully characterized avalanche voltage and current
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



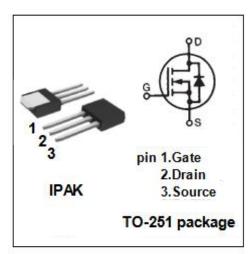
- DC/DC Converter
- Ideal for high-frequency switching and synchronous rectification

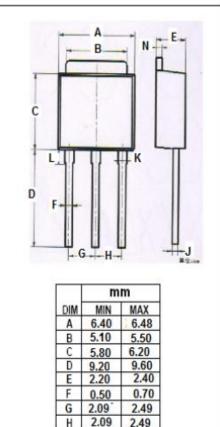
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	4	А	
I _{DM}	Drain Current-Single Pulsed	10	А	
P _D	Total Dissipation @T _C =25℃	89	W	
Tj	Operating Junction Temperature	-55~150	$^{\circ}$ C	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th(j-c)}}$	Junction-to-case thermal resistance	1.40	°C/W





0.40

0.70

0.60

2.00



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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	600		V
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 = 2A		2.0	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V		1	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V;T _J = 125°C		50	
V _{SD}	Diode forward voltage	I _F = 4A; V _{GS} = 0V		1.5	V



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