

isc N-Channel MOSFET Transistor

IXTH30N60L2

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 600V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 240m Ω (Max)
- Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



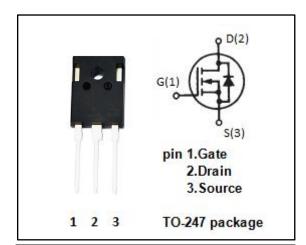
· Switching Voltage Regulators

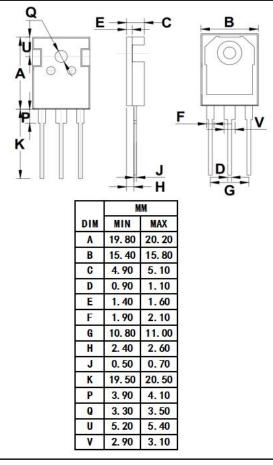
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	E UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage-Continuous ±2		V	
I _D	Drain Current-Continuous	30	Α	
I _{DM}	Drain Current-Single Plused	80	Α	
P _D	Total Dissipation @T _C =25°C 540		W	
Tj	Max. Operating Junction Temperature	c. Operating Junction Temperature -55~150		
T _{stg}	Storage Temperature -55~150		$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.23	°C/W







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• ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT		
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	600			V		
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250uA	2.5		4.5	V		
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 15A			240	mΩ		
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA		
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0 V _{DS} =600V; V _{GS} = 0;T _J =125℃			50 300	μΑ		
V _{SD}	Diode Forward On-voltage	I _F = 30A;V _{GS} = 0			1.5	V		

NOTICE:

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