

isc N-Channel MOSFET Transistor

IXTH6N90A

FEATURES

- Drain Current I_D= 6A@ T_C=25℃
- · Drain Source Voltage-
 - : V_{DSS}= 900V(Min)
- · Static Drain-Source On-Resistance
- : $R_{DS(on)} = 1.4 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

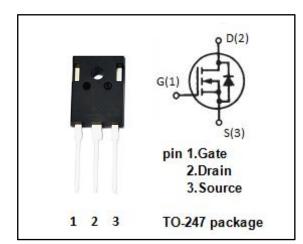
• Designed for use in switch mode power supplies and general purpose applications.

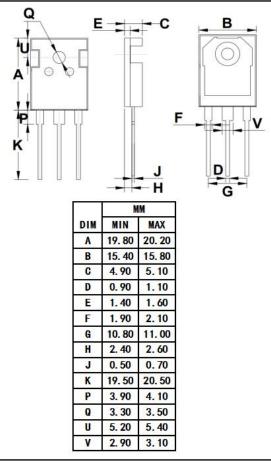


SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	900	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
Ι _D	Drain Current-Continuous	6	Α
I _{DM}	Drain Current-Single Pluse	24	А
P _D	Total Dissipation @T _c =25°C 180		W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 3mA	900		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250μA	2	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 3A		1.4	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} =±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 720V; V _{GS} = 0 V _{DS} = 720V; V _{GS} = 0;T _J =125℃		250 1000	μΑ
V _{SD}	Forward On-Voltage	I _S = 6A; V _{GS} = 0		1.5	V



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