

isc N-Channel MOSFET Transistor

IXTH36N50P

FEATURES

- Drain Current I_D= 36A@ T_C=25℃
- · Drain Source Voltage-
- : V_{DSS}= 500V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.17 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

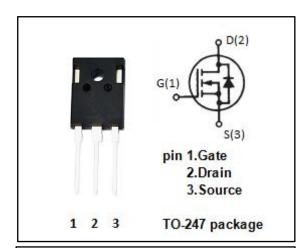
 Designed for use in switch mode power supplies and general purpose applications.

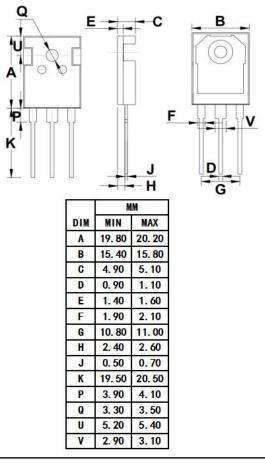


SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	500	V
V_{GS}	Gate-Source Voltage-Continuous ±30		V
ID	Drain Current-Continuous 36		Α
I _{DM}	Drain Current-Single Pluse 100		А
P _D	Total Dissipation @T _C =25°C 500		W
TJ	Max. Operating Junction Temperature	perating Junction Temperature -55~150	
T _{stg}	Storage Temperature	-55~150 °	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.25	°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 = 250μA	500		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 250 μ A	2.5	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 18A		0.17	Ω
Igss	Gate-Body Leakage Current	V _{GS} =±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		25	μA
V _{SD}	Forward On-Voltage	I _S = 36A; V _{GS} = 0		1.5	V



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