

isc N-Channel MOSFET Transistor

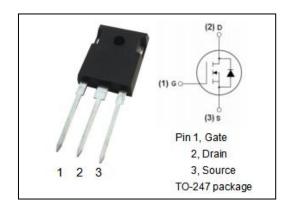
IXTH96N20P

FEATURES

- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 24m \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

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



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	96	А
I _{DM}	Drain Current-Single Pluse	225	А
P _D	Total Dissipation @T _C =25 ℃	600	W
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.25	°C/W

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

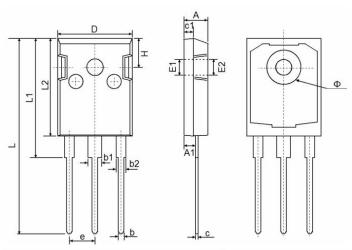
SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250 μ A	200		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250 μ A	2	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 48A		24	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = V _{DSS} ; V _{GS} = 0		25	μ A
V _{SD}	Forward On-Voltage	I _S = 18A; V _{GS} = 0		2	V



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TO-247 PACKAGE INFORMATION



	Dimensions I	n Millimeters	Dimension	s In Inches
Symbol	Min.	Max.	Min.	Max.
Α	4.850	5.150	0.191	0.200
A1	2.200	2.600	0.087	0.102
b	1.000	1.400	0.039	0.055
b1	2.800	3.200	0.110	0.126
b2	1.800	2.200	0.071	0.087
С	0.500	0.700	0.020	0.028
c1	1.900	2.100	0.075	0.083
D	15.450	15.750	0.608	0.620
E1	3.500 REF		0.138 REF	
E2	3.600 REF		0.142	REF
L	40.900	41.300	1.610	1.626
L1	24.800	25.100	0.976	0.988
L2	20.300	20.600	0.799	0.811
Ф	7.100	7.300	0.280	0.287
е	5.450 TYP		0.215	TYP
Н	5.980 REF		0.235 REF	

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