

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

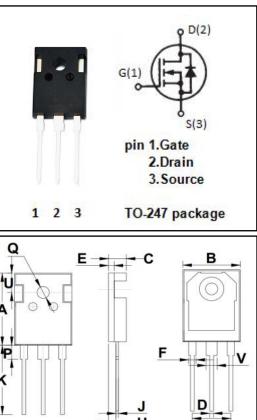
IXTH1N100

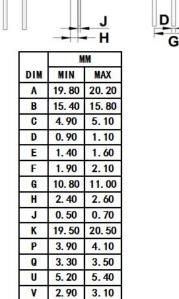
FEATURES

- Drain Current I_D = 1.5A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 1000V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} = 11 Ω (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.





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	1000	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	1.5	А
I _{DM}	Drain Current-Single Pluse	6	А
PD	Total Dissipation @Tc=25°C 60		W
TJ	Max. Operating Junction Temperature -55~150		°C
T _{stg}	Storage Temperature -55~150		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.3	°C/W



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250uA	1000		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250μA	2.5	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 1A		11	Ω
lgss	Gate-Body Leakage Current	V _{GS} =±20V;V _{DS} =0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 1000V; V_{GS} = 0 V_{DS} = 1000V; V_{GS} = 0; T_J =125°C		25 500	μA
V _{SD}	Forward On-Voltage	I _S =1.5A; V _{GS} = 0		1.8	V

NOTICE:

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