

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTM11N80

FEATURES

- Drain Current I_D = 11A@ T_C=25°C
- Drain Source Voltage : V_{DSS}= 800V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.95 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

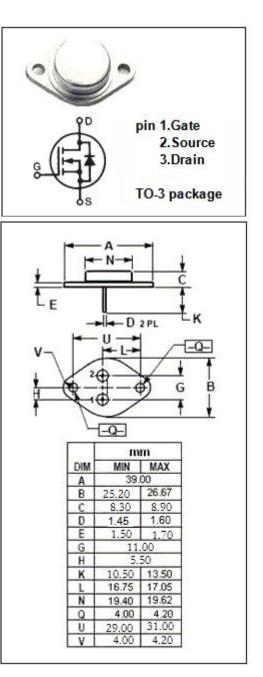
DESCRIPTION

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

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
lD	Drain Current-Continuous	11	A
I _{DM}	Drain Current-Single Pluse	44	A
PD	Total Dissipation @T _c =25°C	@T _c =25°C 300	
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	0.42	°C/W





isc N-Channel MOSFET Transistor

IXTM11N80

ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!^{\circ}\!\!^{\circ}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250µA	800		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 = 5.5A		0.95	Ω
lgss	Gate-Body Leakage Current	V _{GS} =±20V;V _{DS} =0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 640V; V_{GS} = 0 V_{DS} = 640V; V_{GS} = 0;TJ=125°C		250 1000	μA
V _{SD}	Forward On-Voltage	I _S = 11A; V _{GS} = 0		1.5	V

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.