

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXFX360N10T

FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : $R_{DS(on)} = 2.9 m \Omega (Max) @V_{GS} = 10V$
- Fast Switching
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

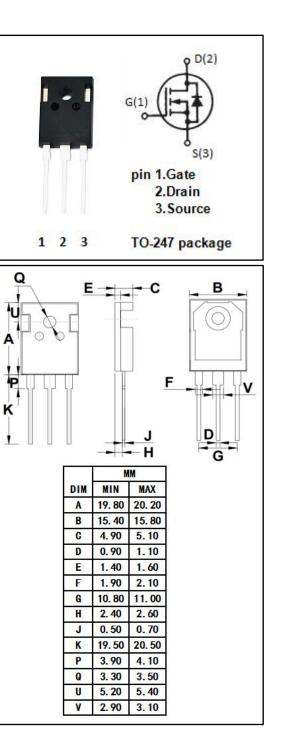
- · Switch-Mode and Resonant-Mode Power Supplies
- DC-DC Converters
- AC and DC Motor Drives

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	360	A
I _{DM}	Drain Current-Single Plused	900	А
PD	Total Dissipation @Tc=25℃	1250	W
Tj	Max. Operating Junction Temperature -55~175		°C
T _{stg}	Storage Temperature	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	0.12	℃ /W





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• ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =1mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =3mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 100A			2.9	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±200	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0 V _{DS} =100V; V _{GS} = 0;TJ=150°C			25 2500	μA
V _{SD}	Diode Forward On-voltage	I _F = 100A ;V _{GS} = 0			1.2	V

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