

FEATURES

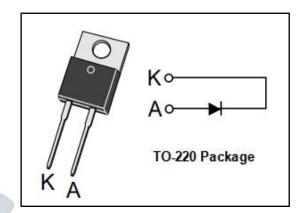
- High-Frequency Operation
- Temperature Independent Swithing Behavior
- Zero Forward Recovery Voltage
- Zero Reverse Recovery Current

APPLICATIONS

- Motor Drives
- Switch Mode Power Supplies
- Power Factor Correction

Absolute Maximum Ratings(TC=25℃)

SYMBOL	PARAMETER		VALUE	UNIT
V _{RRM} V _{RSM} VDC	Peak Repetitive Reverse Voltage Surge Peak Reverse Voltage DC Blocking Voltage		1200	V
lF	Continuous Forward Current,	Tc=25℃ Tc=135℃ Tc=152℃	31 14.5 10	A
IFRM	Repetitive Peak Forward Surge Current, T_C =25 $^\circ\!\mathrm{C}$, t_p =10 ms, Half Sine Wave		50	A
IFSM	Non-repetitive Peak Surge Current, T_c =25°C, t_p =10us, Pulse		250	А
P _D	Power Dissipation ,Tc=25 $^\circ\!\!\mathbb{C}$		312	w
TJ	Junction Temperature		-55~175	°C
T _{stg}	Storage Temperature Range		-55~175	°C





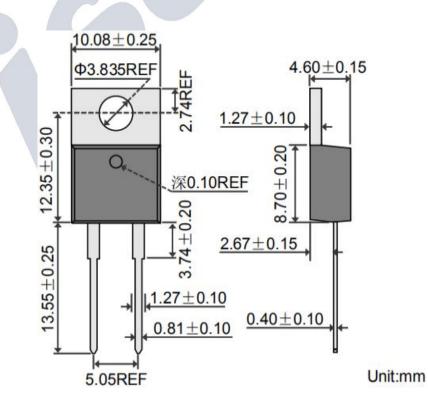
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.48	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	l _F = 10A ; T _C = 25℃	1.8	V
		l _F = 10A ; T _C = 175℃	3.0	V
IR	Maximum Instantaneous Reverse Current	V _R =1200V, T _C = 25℃	0.2	mA
		V _R =1200V, T _C = 150℃	1.0	mA

Package Dimensions (UNIT: MM):





Product Disclaimer

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.

