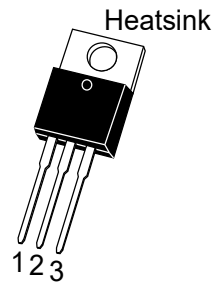


■ Productor Character

- Super fast switching for high efficiency.
- Low reverse leakage.
- High forward surge current capability.
- RoHs Product.

■ Summarize

- SFT10H02 Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.



Package:TO-220AB

SFT10H02

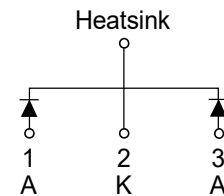
SFT10H02-HF

HF=Halogen Free

■ Primary Use

- Mainly used in switching power supply, PWM pulse width modulator, inverter as a freewheeling and other electronic circuits, high-frequency rectifier diode, diode or damping diode use

■ Equivalent Circuit



Absolute Maximum Ratings

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	V_{RRM}	200	V
Average Rectified Forward Current (Rated VR=20Khz Square Wave) - 50% duty cycle	I_{FAV}	10	A
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	I_{FSM}	110×2	A
Operating Junction Temperature	T_J	-40~175	°C
Storage Temperature	T_{STG}	-40~175	°C
Typical Thermal Resistance(per leg)	Package=TO-220AB $R_{\theta JC}$	2	°C/W

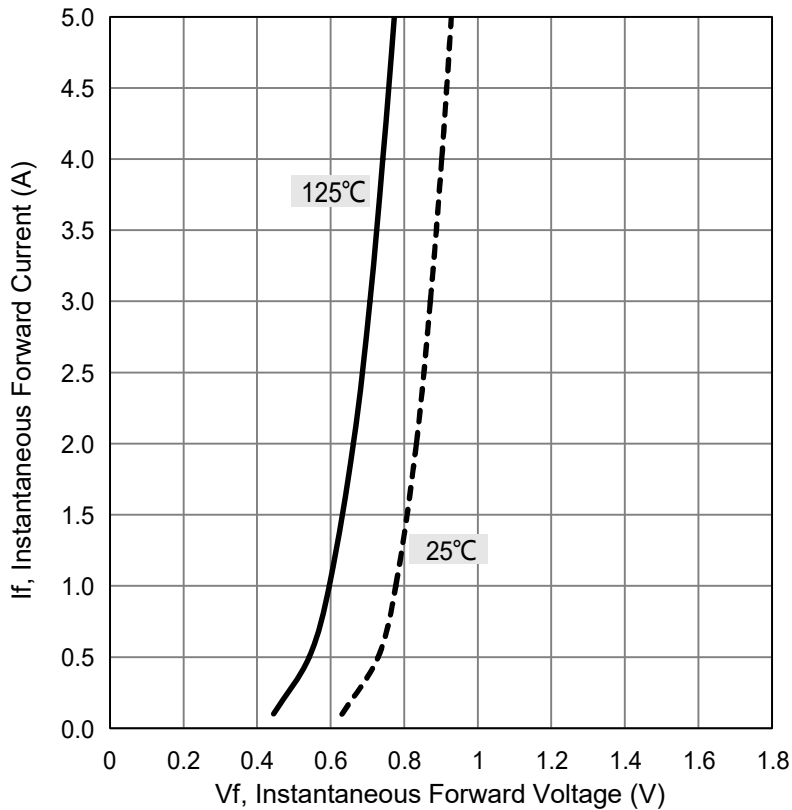
Electricity Character Per Diode($T_J=25^{\circ}\text{C}$ unless otherwise specified)

Item	Test Condition		Value(min)	Value(typ)	Value(max)	Unit
V _B	TJ =25℃	IR=100uA	200	---	---	V
I _R	TJ =25℃	VR=200V	---	---	0.01	mA
	TJ =125℃	VR=200V	---	---	0.10	mA
V _F	TJ =25℃	IF=5A (IFAV=5A×2)	---	0.93	0.96	V
	TJ =125℃		---	---	0.85	V
T _{RR}	IF=0.5A,IR=1.0A,I _{REC} =0.25A		---	---	20	nS

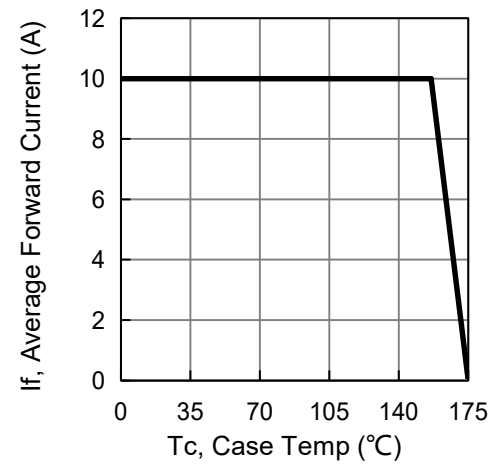


Characteristic Curves

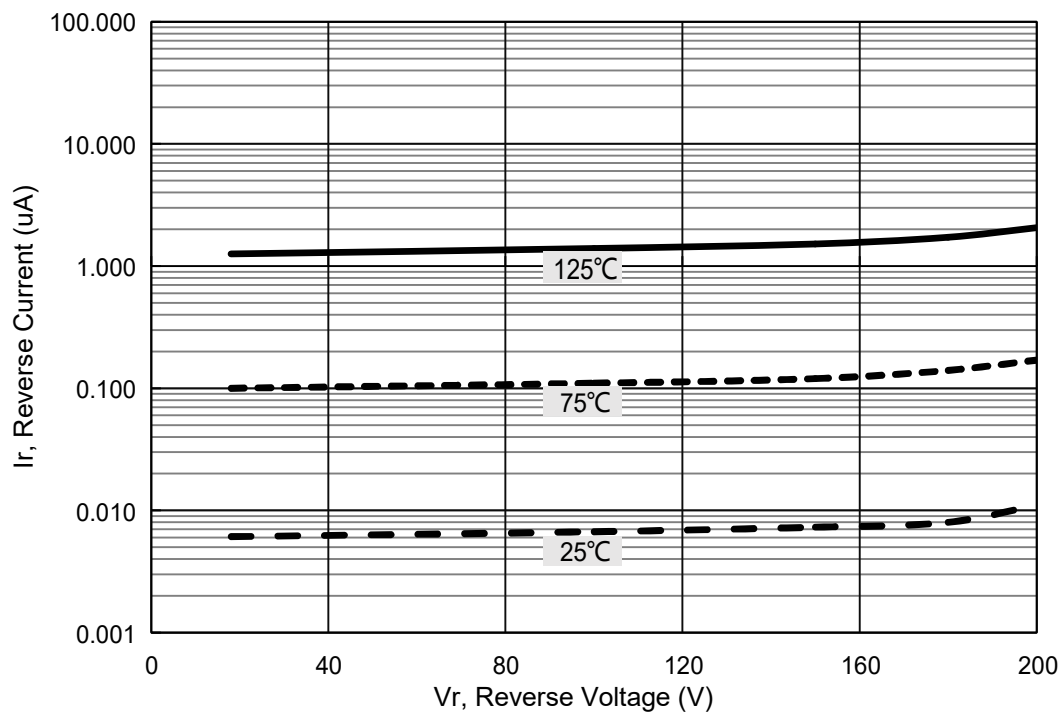
The forward voltage and forward current curve



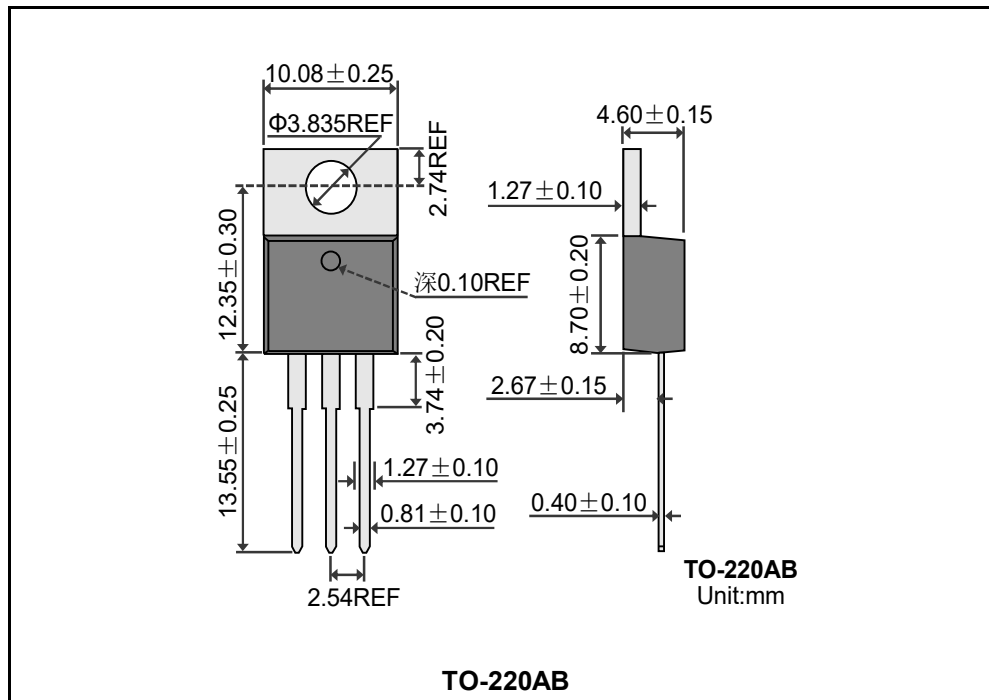
Current derating curve, per element



The reverse leak current and the reverse voltage (single-device) curve.



Package Outline Dimensions



Marking Information



“MHCHXM”= Product Logo
“Marking Code”= The Following
“XXXX”= Date Code Marking

Package	Marking Code	Part Number
TO-220AB	SFT10H02	SFT10H02
		SFT10H02-HF

Packing Information

Packaging	Package	Part Number	Quantity	Size
Tube	TO-220AB	Tube	50 pieces	530*33*7mm
		Inner Box	1000 pieces	558*150*40mm
		Outer Box	5000 pieces	570*235*170mm

Notice:

Jiangsu Mhchxm Electronics Technology Co.Ltd., have the right to modify the specification revision, all information are subject to change without notice.

