

/ Descriptions

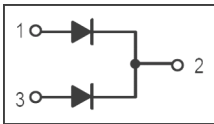
TO-220F Plastic package Schottky diode .

/ Features

Low forward voltage drop,low power losses,High efficiency operation.

/ Applications

For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications.

/ Equivalent Circuit**/ Pinning**

PIN1 Anode

PIN 2 Cathode

PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{DC}	200	V
RMS Reverse Voltage	V_{RMS}	140	V
Average forward rectified Current	$I_{F(AV)}$	40	A
Non Repetitive Peak Surge Current	I_{FSM}	320	A
Thermal Resistance Junction to Case	R_{JC}	4.5	/W
Junction and Storage Temperature Range	$T_j T_{stg}$	-40~+175	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_{(BR)R}$	$I_R=1mA$ $T_a=25$	200			V
Peak Forward Voltage	V_{FM}	$I_F=5.0A$ $T_a=25$			0.82	V
		$I_F=5.0A$ $T_a=125$			0.78	V
		$I_F=20A$ $T_a=25$			0.95	V
		$I_F=20A$ $T_a=125$			0.82	V
Instantaneous Reverse Current	I_R Note 1	$V_R=200V$ $T_a=25$			100	uA
		$V_R=200V$ $T_a=125$			5	mA

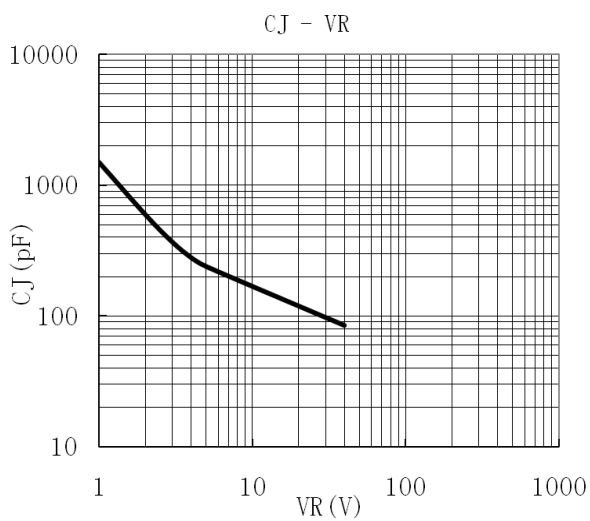
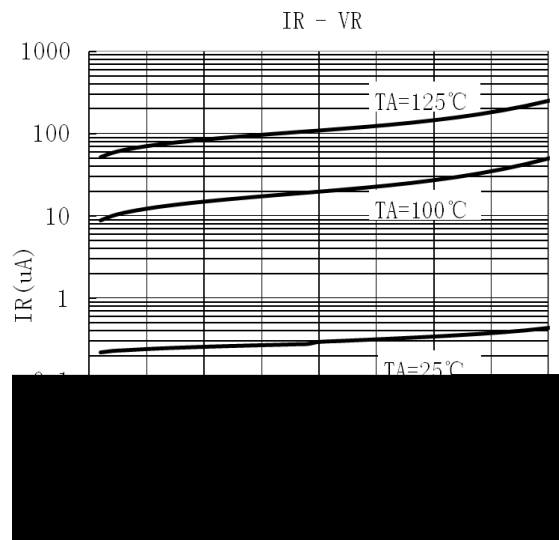
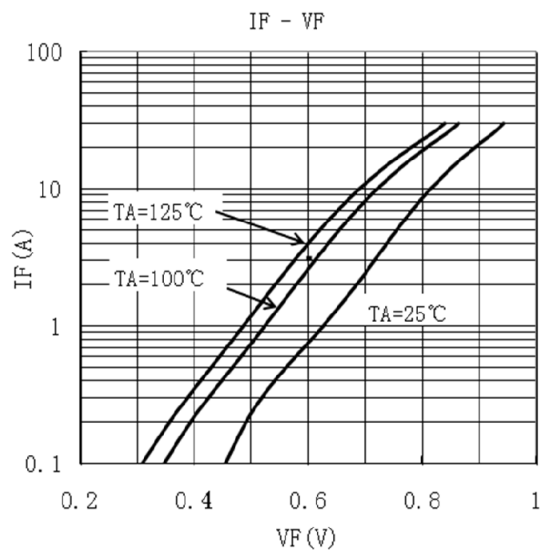
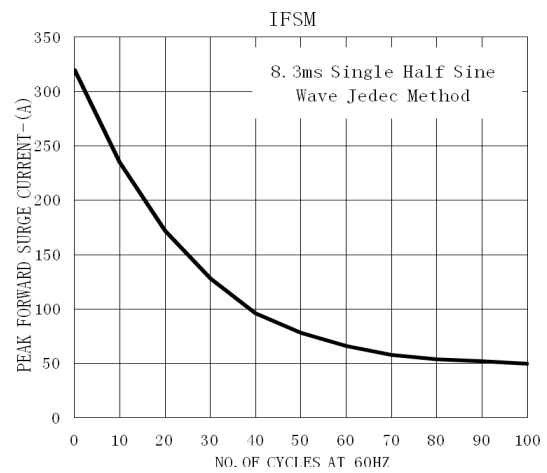
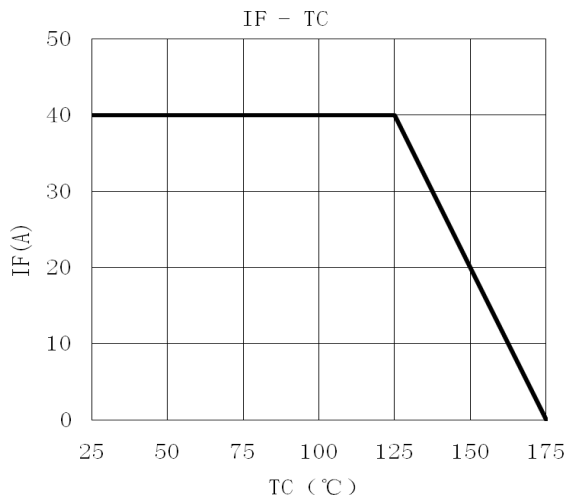
/Notes

/Short duration pulse test used to minimize self-heating effect.

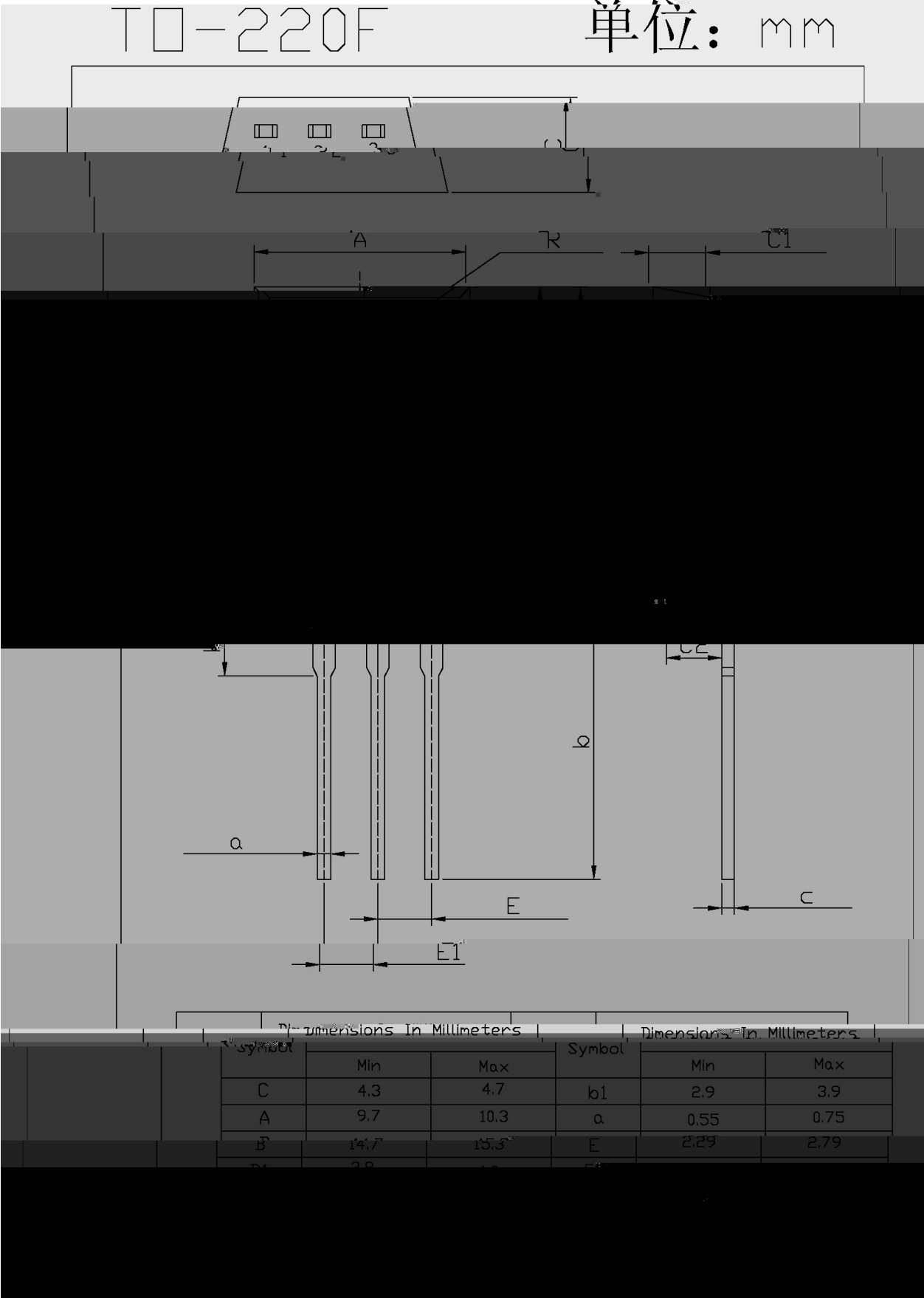
/ Unless otherwise noted, values for the parameters of a single chip



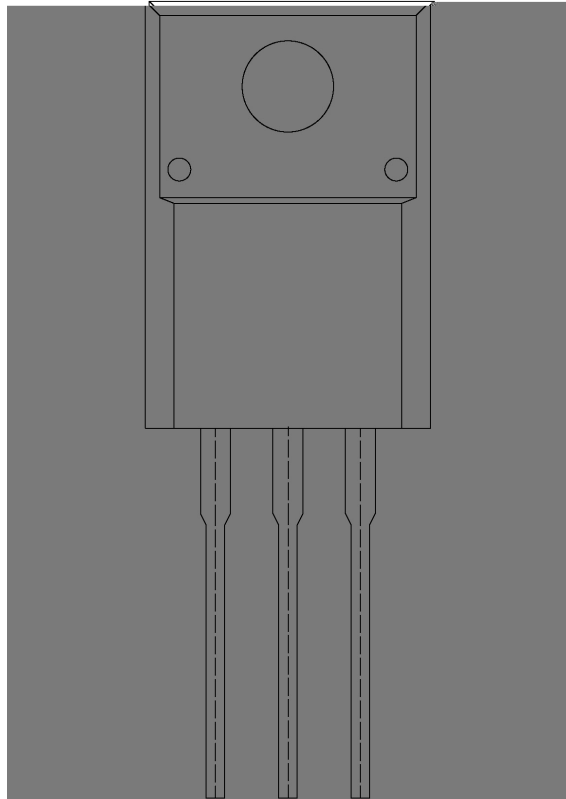
/ Electrical Characteristic Curve

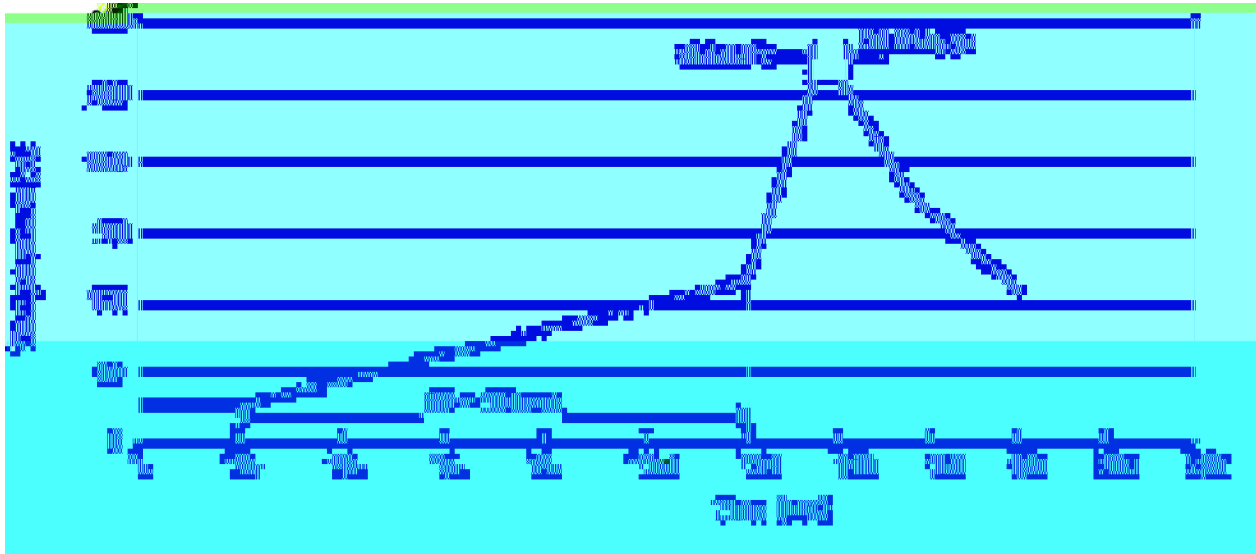


/ Package Dimensions



/ Marking Instructions




() / Temperature Profile for IR Reflow Soldering(Pb-Free)


Note:

- 1 25 150 60 90sec;
- 2 255 5 5 0.5sec;
- 3 2 10 /sec.

- 1.Preheating:25~150 , Time:60~90sec.
- 2.Peak Temp.:255 5 , Duration:5 0.5sec.
3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.
/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices