

/ Descriptions

TO-220F

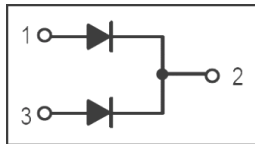
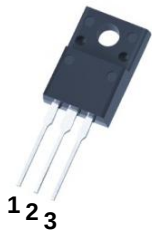
Schottky Diode in a TO-220F Plastic Package.

/ Features

Low power loss,high efficiency.

/ 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

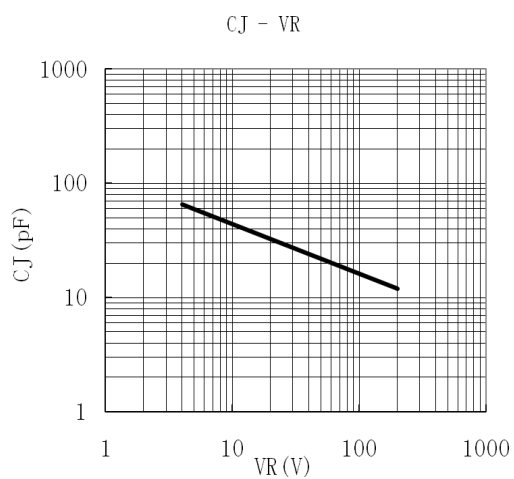
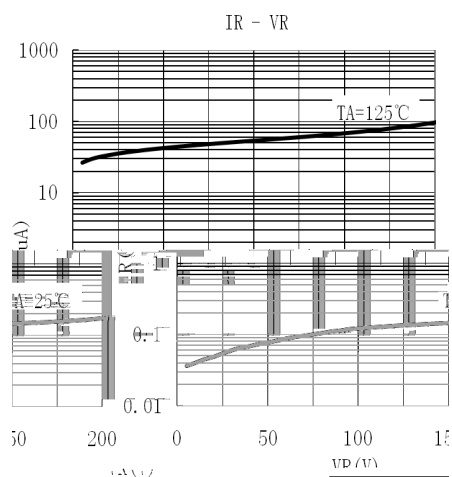
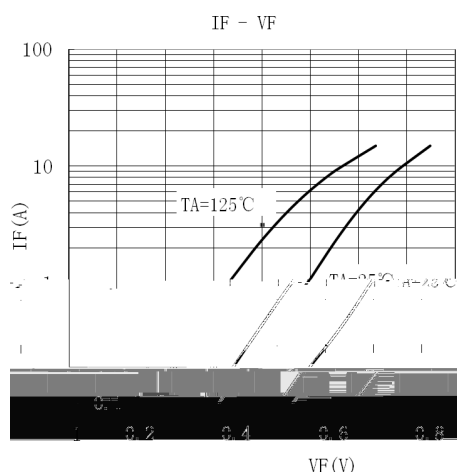
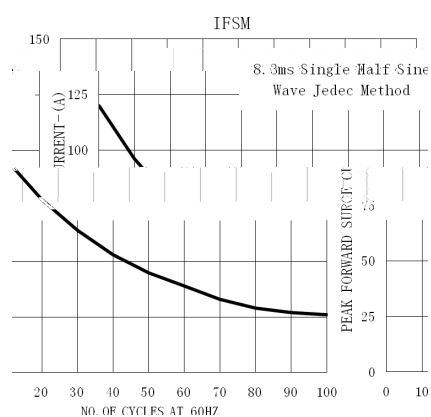
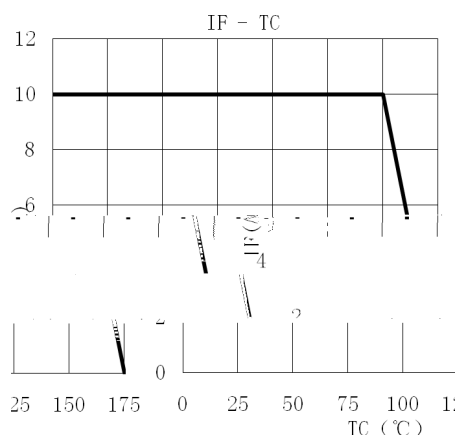
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Average Forward Current	$I_{F(AV)}$	10	A
Reverse Forward Current	I_{FRM}	10	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Peak Repetitive Reverse Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	3.5	$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_j, T_{stg}	-55 150	$^\circ\text{C}$

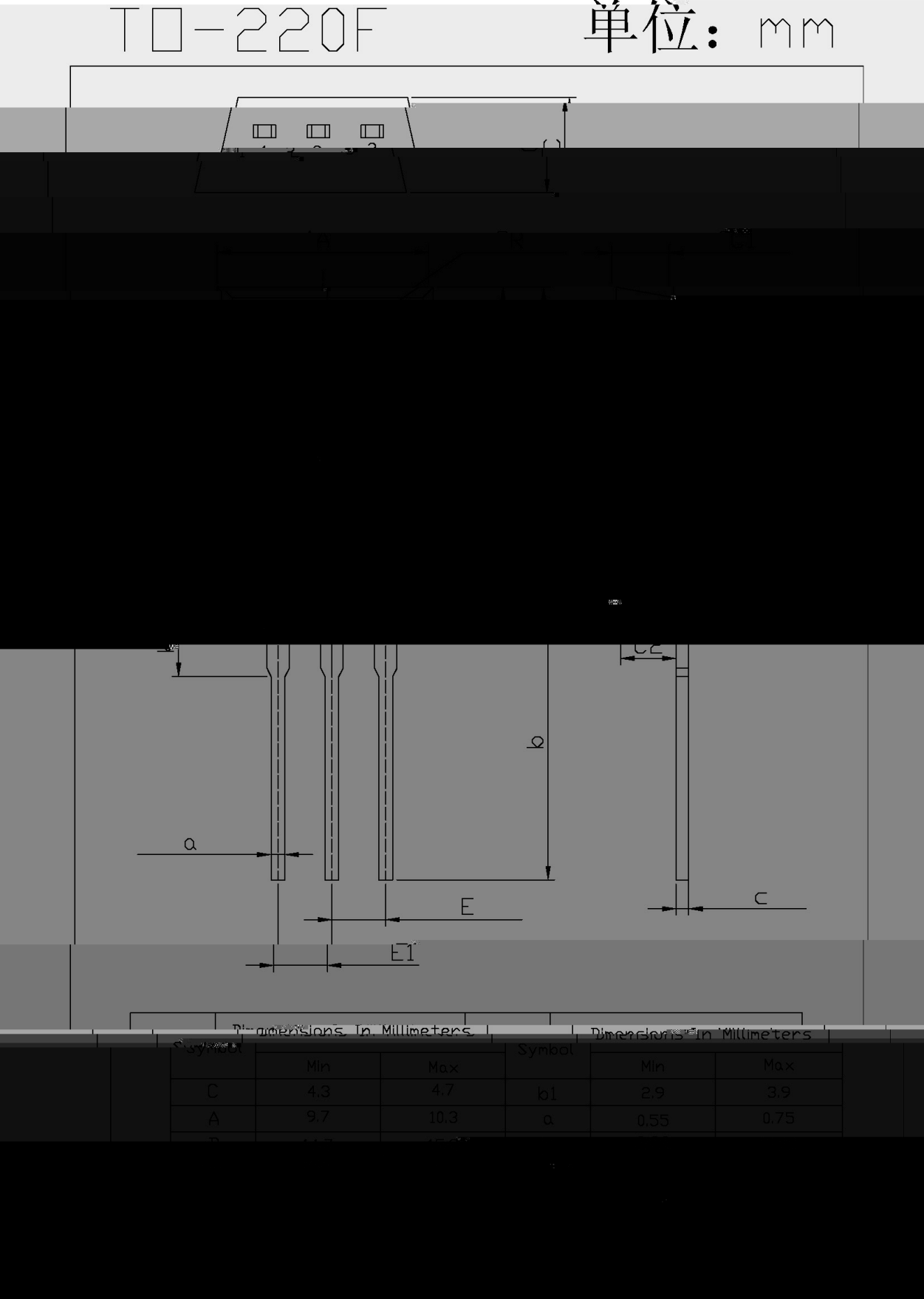
/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R		200			V
Forward Voltage	V_F	$I_F=5\text{A}$			0.99	V
		$I_F=5\text{A}(T_c=125^\circ\text{C})$			0.87	V
Instantaneous Reverse Current	I_R	$V_R=200\text{V}$			0.15	mA
		$V_R=200\text{V}(T_c=125^\circ\text{C})$			150	mA
Critical rate of rise of reverse voltage	dv/dt				10000	V/ μs

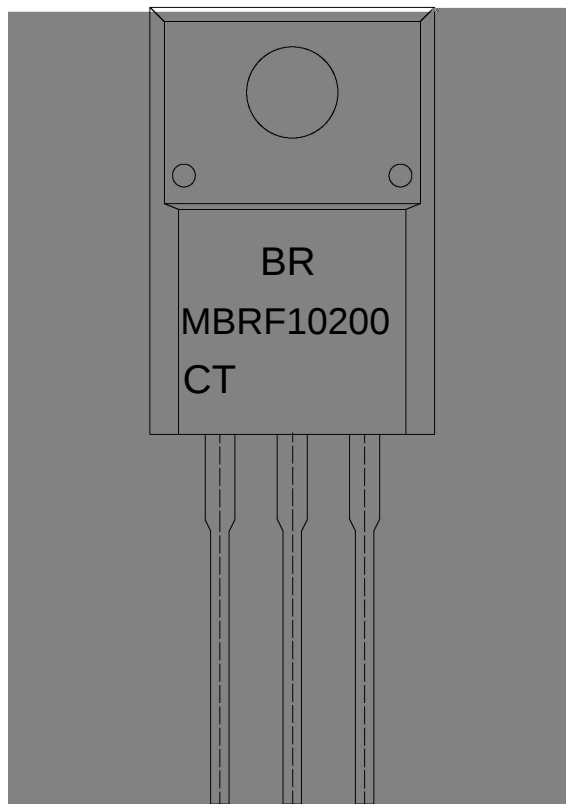
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

MBRF10200

CT:

Note:

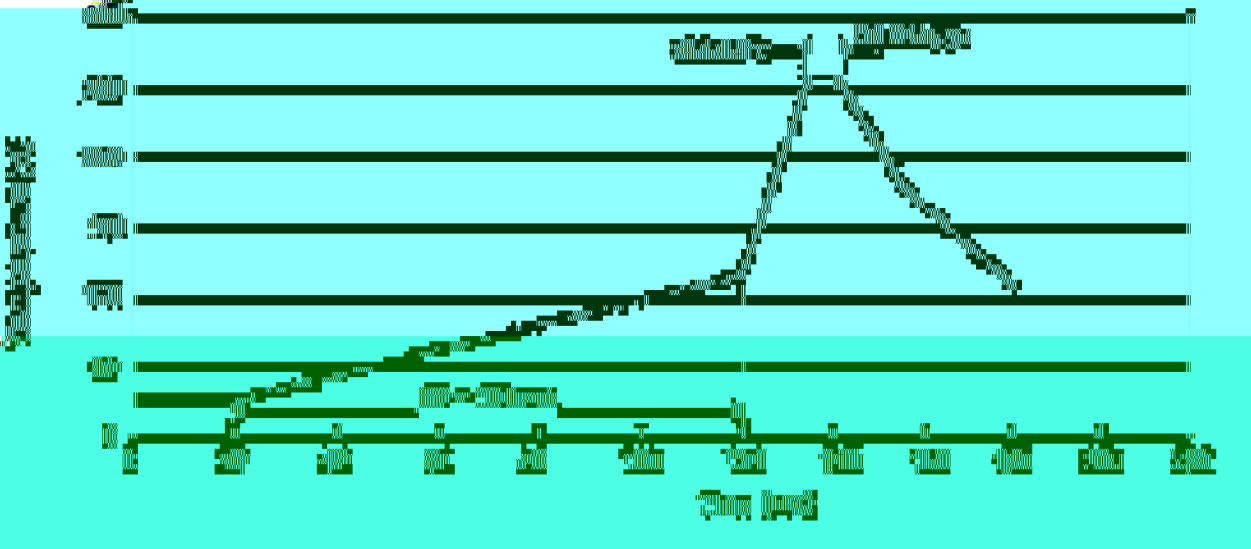
BR: Company Code

MBRF10200: Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

1 25 150 60 90sec;

2 255±5 5±0.5sec;

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