

描述 / Descriptions

TO-220

Schottky Barrier Diode in a TO-220 Plastic Package.

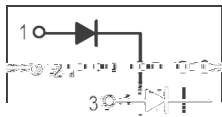
特征 / Features

Low power loss, high efficiency.

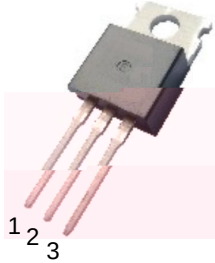
用途 / Applications

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

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN1 Anode PIN 2 Cathode PIN 3 Anode

放大及印章代码 / h_{FE} Classifications & Marking

See Marking Instructions.

极限参数 / Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
Average Rectified Forward Voltage	$V_{R(RMS)}$	70	V
Peak Repetitive Forward Current	$I_{F(AV)}$	2 5	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	175	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	2.5	/W
Junction Temperature Range	T_{jMAX}	175	
Storage Temperature Range	T_{stg}	-65 175	

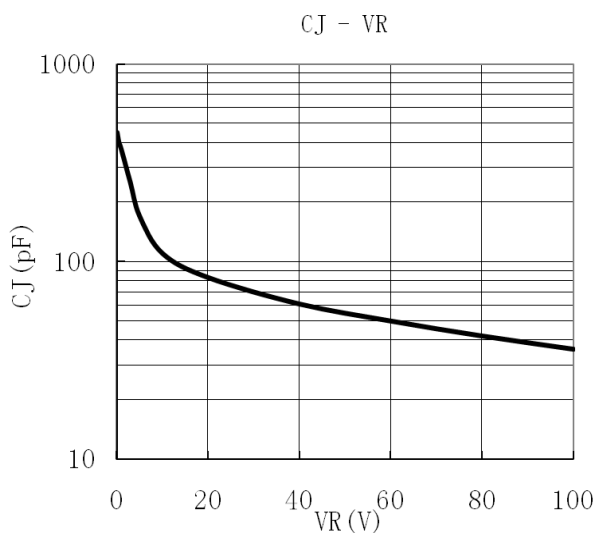
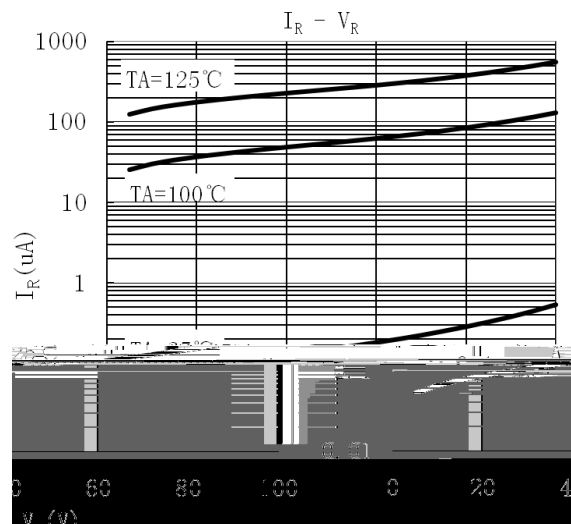
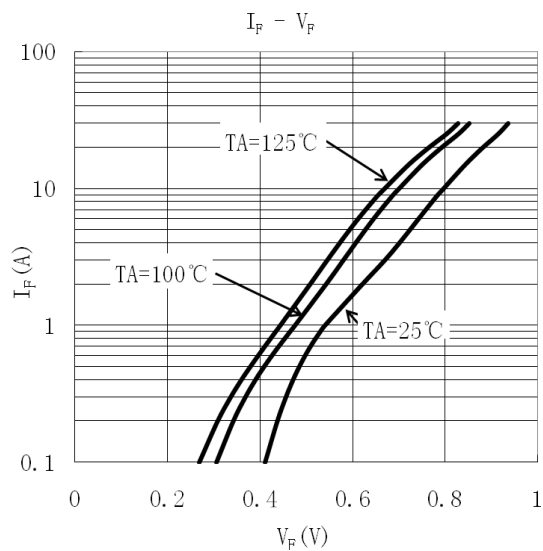
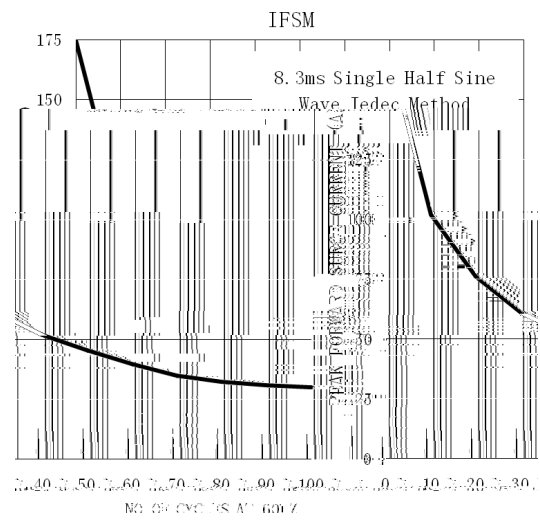
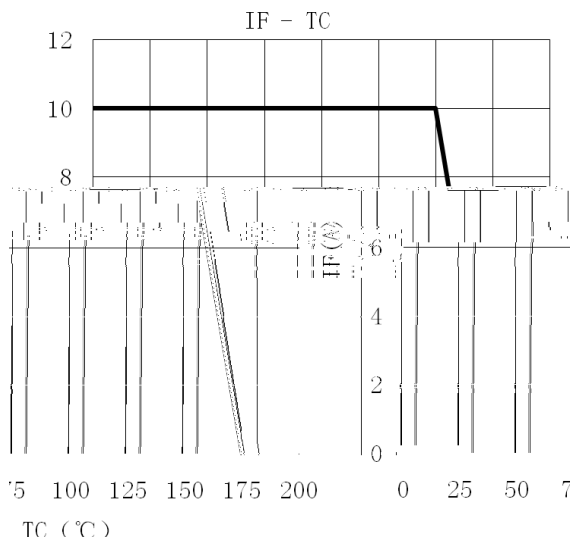
电性能参数 / Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Current Voltage	V_R	$I_R=0.3mA$	100			V
Forward Voltage	V_F	$I_F=5A(T_J=25^\circ C)$			0.75	V
		$I_F=5A(T_J=125^\circ C)$			0.65	V
		$I_F=10A(T_J=25^\circ C)$			0.85	V
		$I_F=10A(T_J=125^\circ C)$			0.75	V
Instantaneous Reverse Current	I_R Note 1	$V_R=100V(T_J=25^\circ C)$			10	μA
		$V_R=70V(T_J=125^\circ C)$			1.0	mA
		$V_R=100V(T_J=125^\circ C)$			5.0	mA

/Notes

1. /Short duration pulse test used to minimize self-heating effect.
2. / Unless otherwise noted, values for the parameters of a single chip.

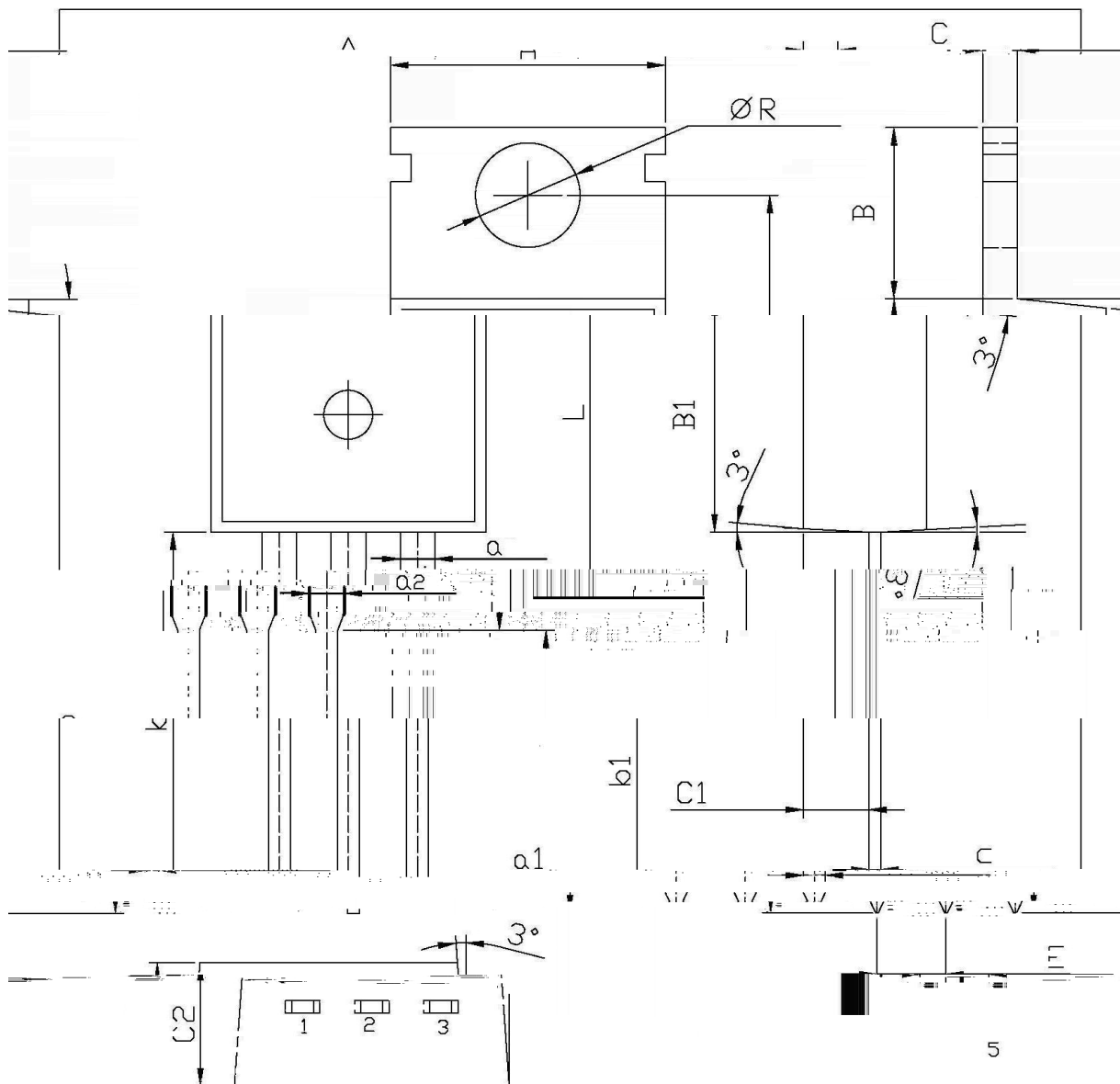
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

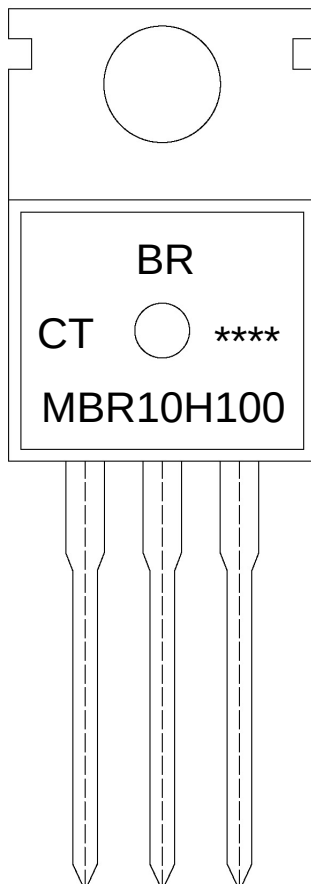
T□-220

单位: mm



Symbol	Min	Max	Symbol	Min	Max
A	9.8	10.2	B	6.3	6.7
R	3.56	3.64	B1	9.0	9.4
L	15.7	16.1	C1	2.2	2.6
a	12.6	13.6	C	1.22	1.32
a2	0.4	0.6	F	2.34	2.74
a1	4.3	4.7	Q2	0.2	1.25
b1	1.45				

印章说明 / Marking Instructions



BR

MBR10H100

CT:

Note:

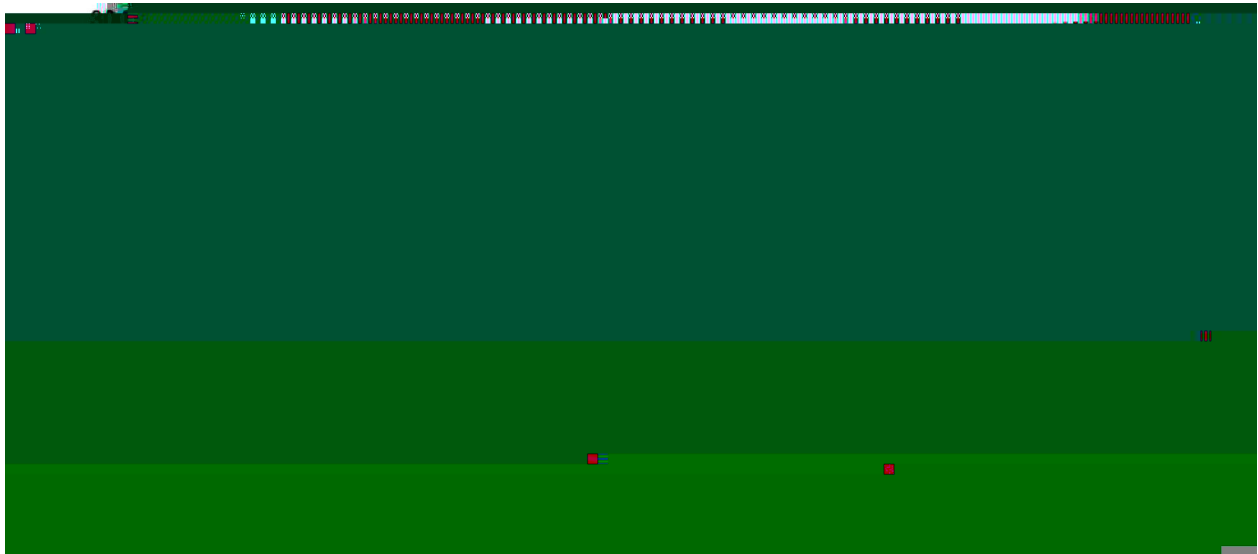
BR: Company Code

MBR10H100 Product Type.

CT: Internal Structure

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

波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)



Note:

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

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

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

包装规格 / 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

使用说明 / Notices