

描述

Schottky Barrier Diode in a TO-220 Plastic Package.

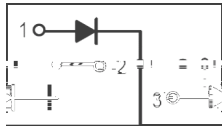
特征

Low power loss, high efficiency.

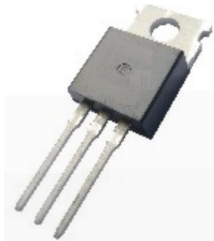
用途

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

内部等效电路



引脚排列



PIN1 Anode PIN 2 Cathode PIN 3 Anode

放大及印章代码

See Marking Instructions.

极限参数

°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

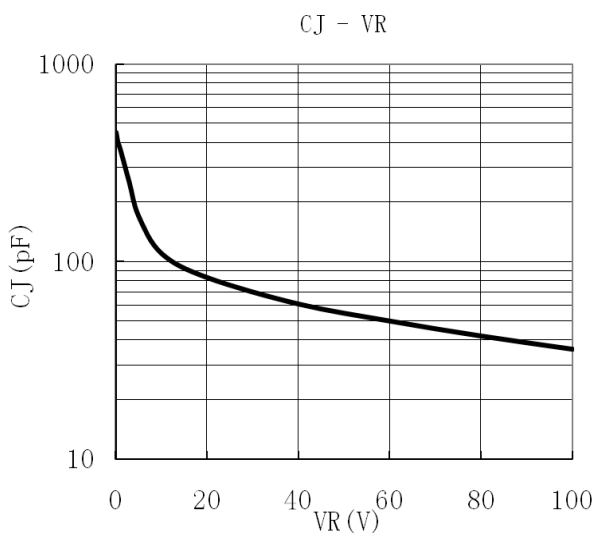
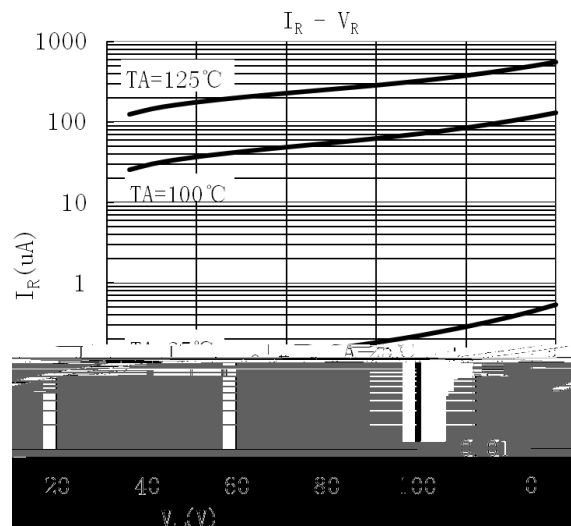
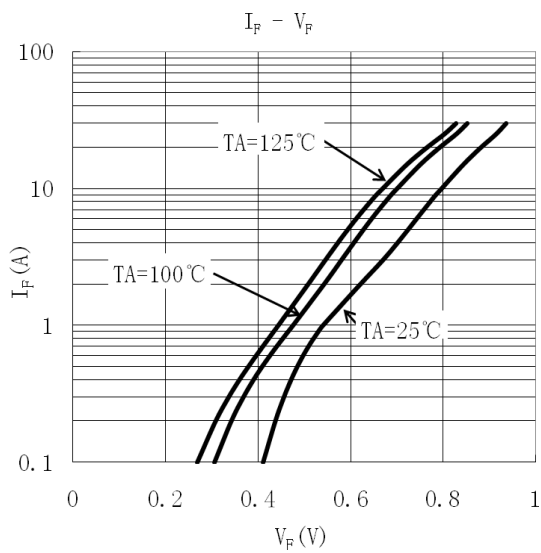
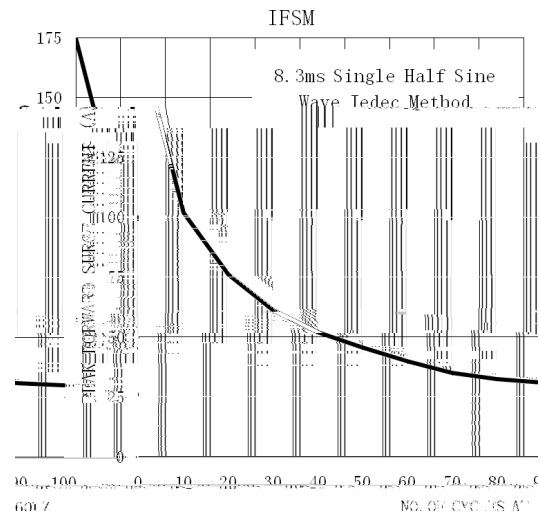
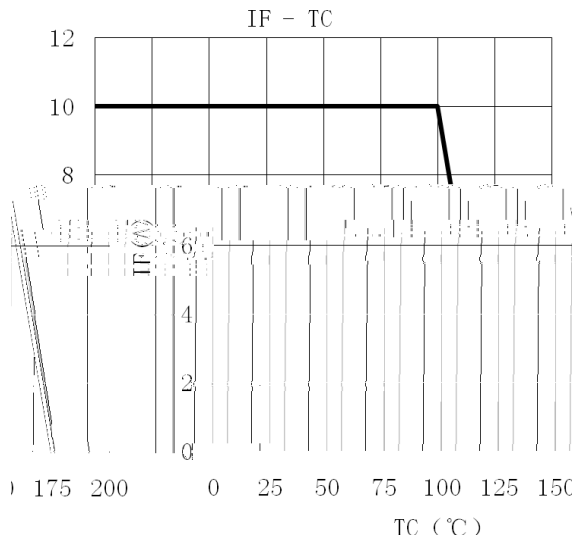
°C

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	A
		$V_R=70V(T_J=125^\circ C)$			1.0	mA
		$V_R=100V(T_J=125^\circ C)$			5.0	mA

/Notes

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

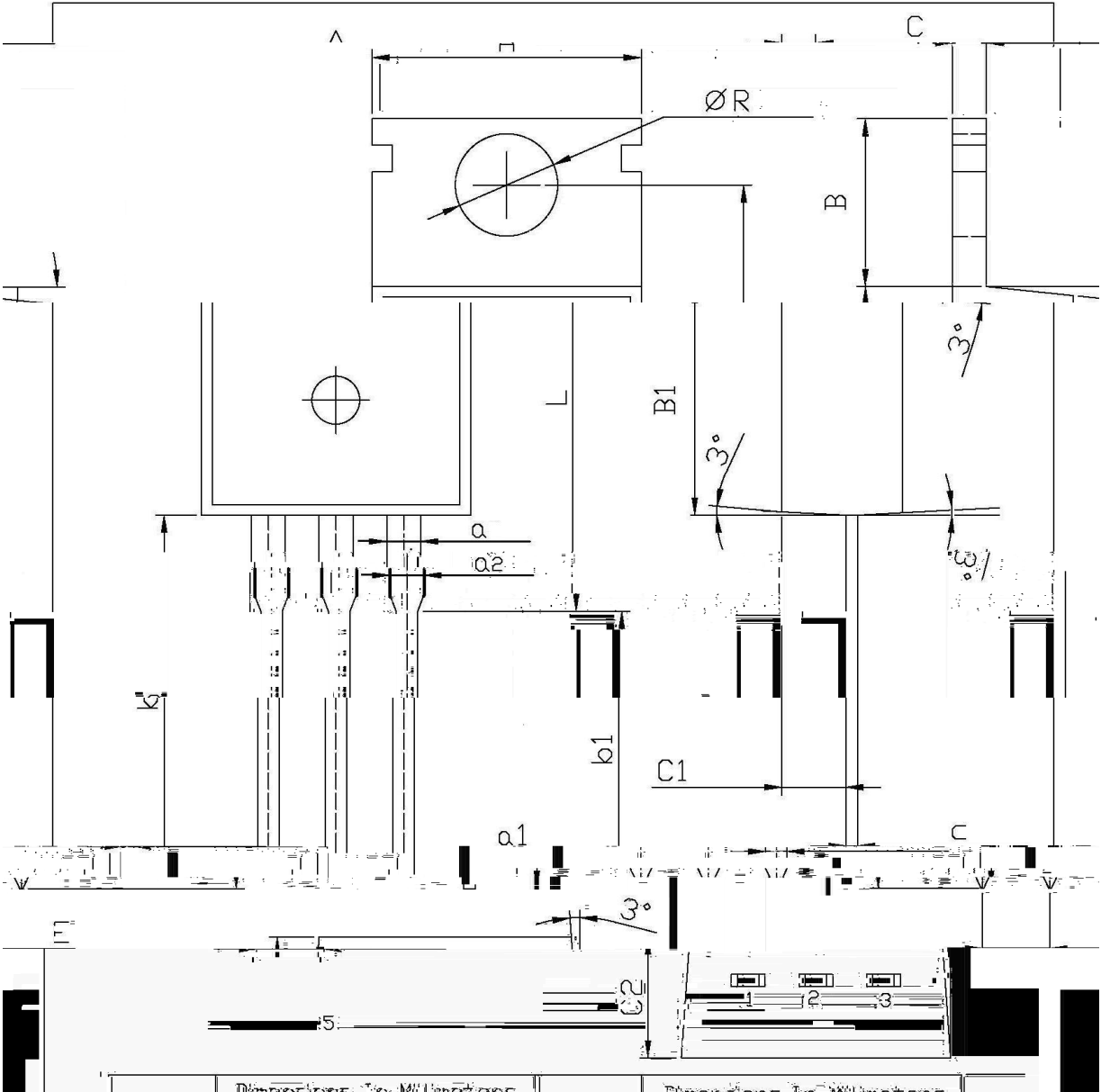
single chip. / Unless otherwise noted, values for the parameters of a

电参数曲线图


外形尺寸图

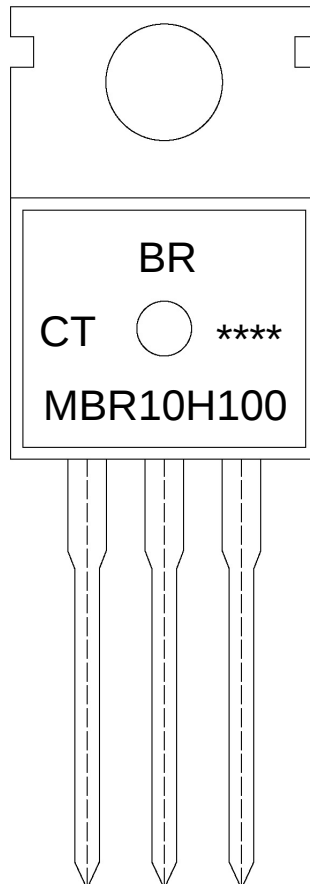
T□-220

单位: mm



Symbol	Min	Max	Symbol	Min	Max
A	9.8	10.2	C	1.2	1.4
R	3.56	3.64	B	6.3	6.7
L	15.7	16.1	B1	9.3	9.4
b	12.6	13.6	C1	2.2	2.6
a	12.6	13.6	C2	1.31	1.39
a1	12.6	13.6	2	1.32	1.38
b1	12.6	13.6	3	2.34	2.74
C	±0.4		Ø2	1.25	1.45

印章说明



BR

Note:

BR:

Company Code

Product Type.

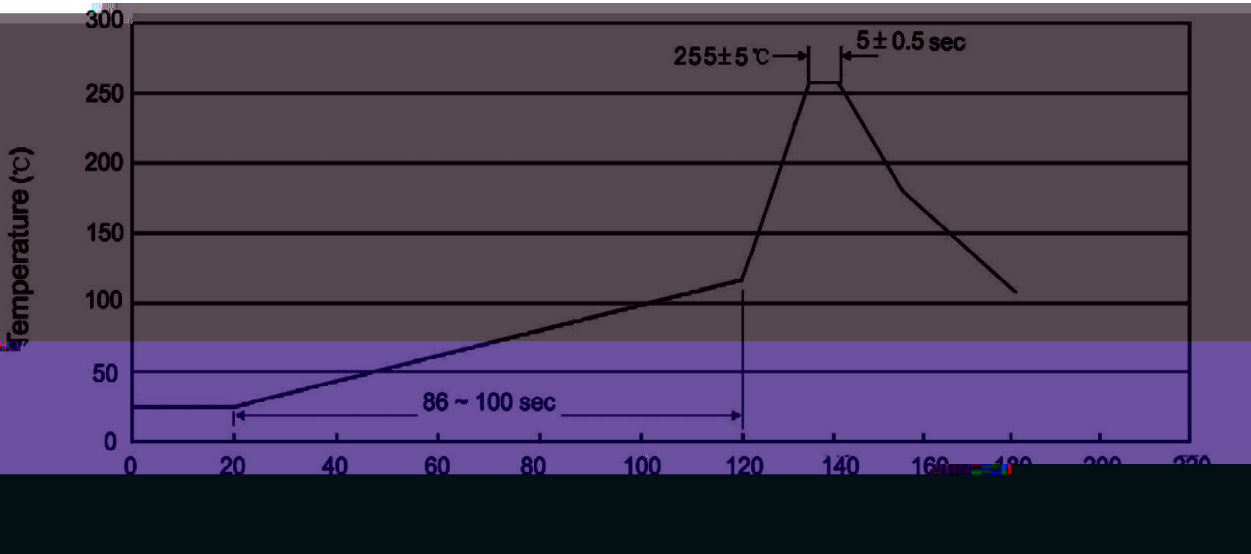
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Internal Structure

****:

Lot No. Code, code change with Lot No.

波峰焊温度曲线图 无铅



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.

耐焊接热试验条件

270 5

10 1 sec.

Temp.:270±5

Time:10±1 sec

包装规格

/ 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