

/ Descriptions

TO-220

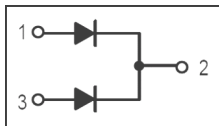
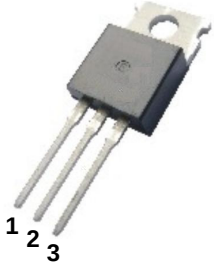
Schottky Barrier Diode in a TO-220 Plastic Package.

/ 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(Ta=25)

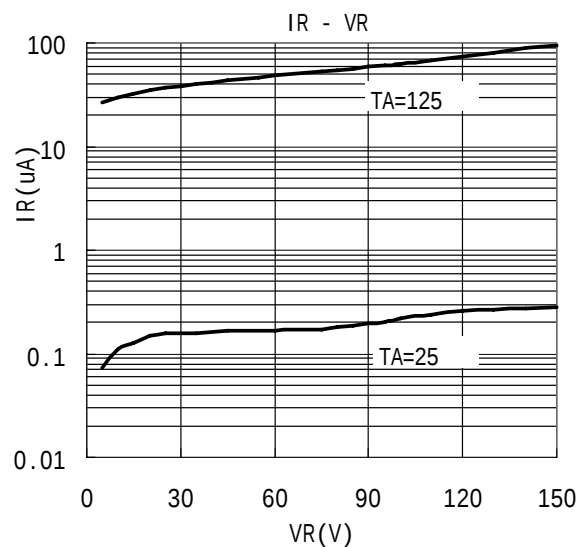
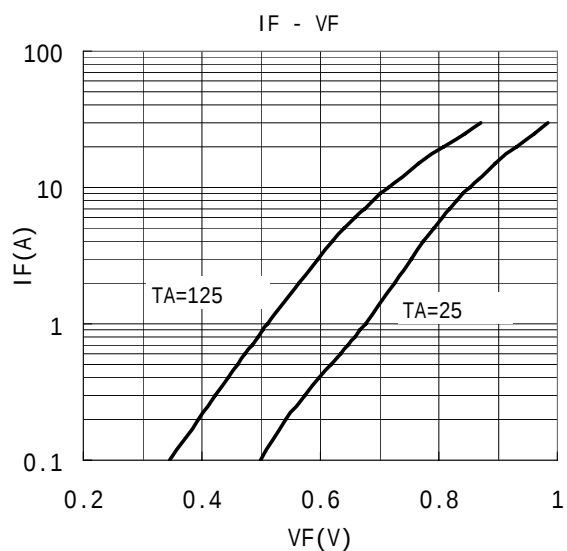
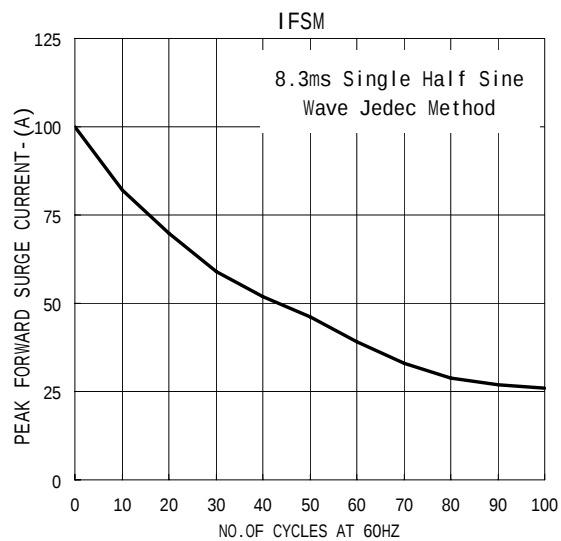
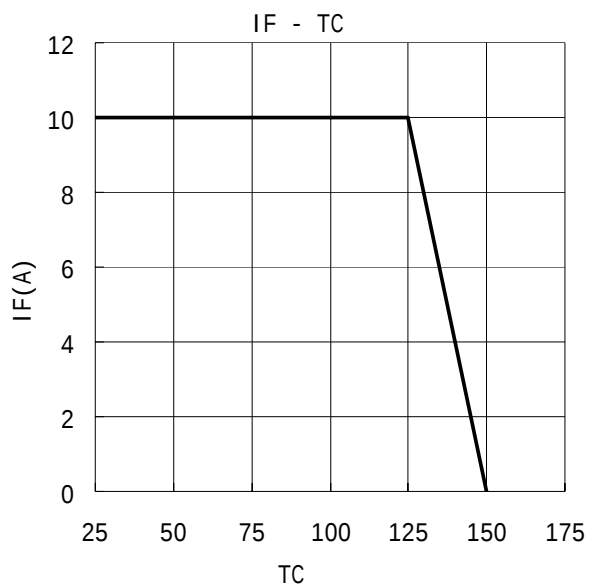
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	150	V
Peak Repetitive Forward Current	$I_{F(AV)}$	10	A
Average Rectified Forward Current	I_{FRM}	10	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	150	A
Repetitive Peak Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.5	/W
Junction and Storage Temperature Range	T_j, T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Current Voltage	V_R	$I_R=1mA$	150			V
Forward Voltage	V_F	$I_F=5A$			0.88	V
		$I_F=5A(T_c=125)$			0.78	V
Instantaneous Reverse Current	I_R	$V_R=150V$			0.15	mA
		$V_R=150V(T_c=125)$			150	mA
Voltage Rate of Change	dv/dt				10000	V/ μs

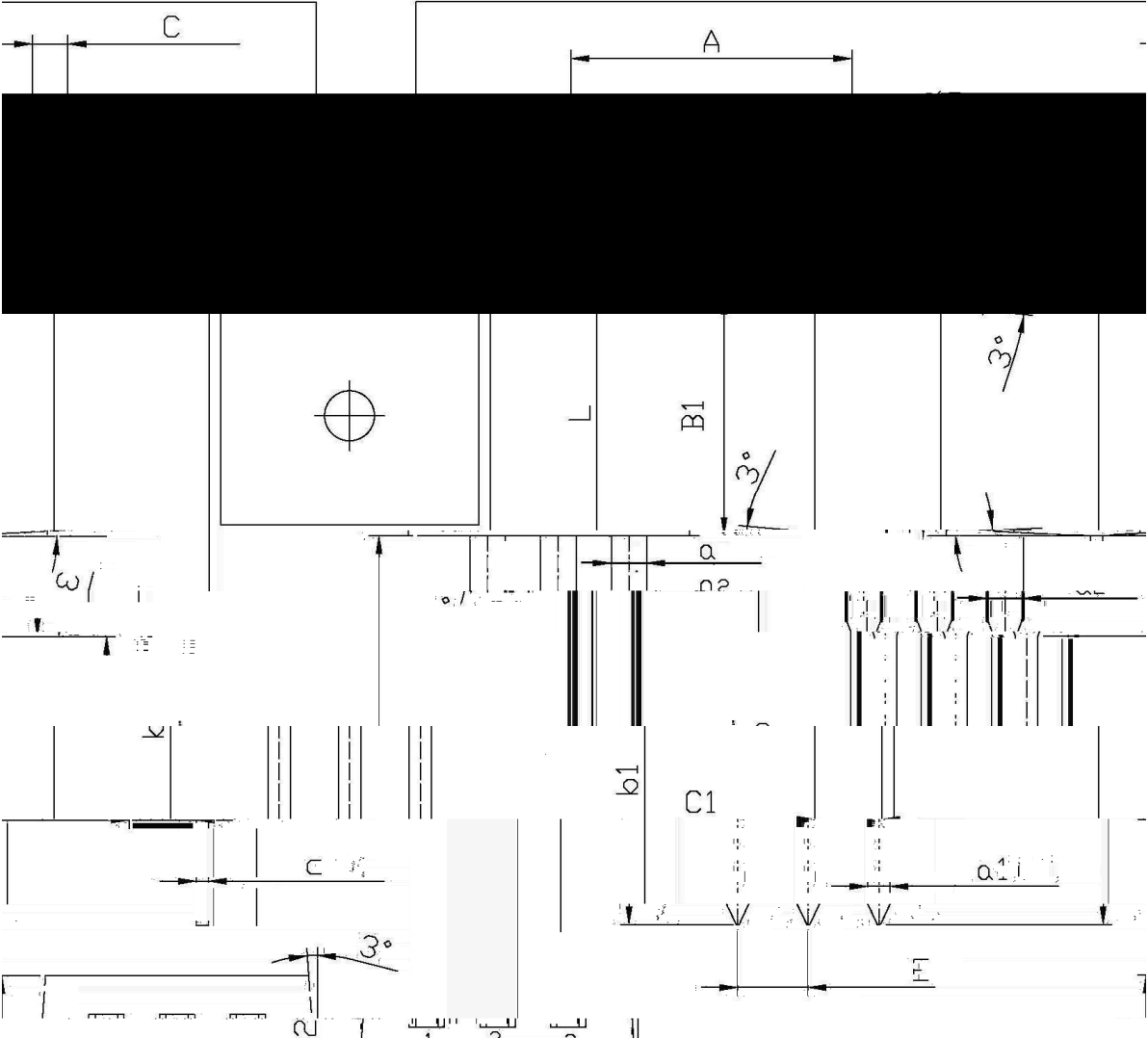


/ Electrical Characteristic Curve



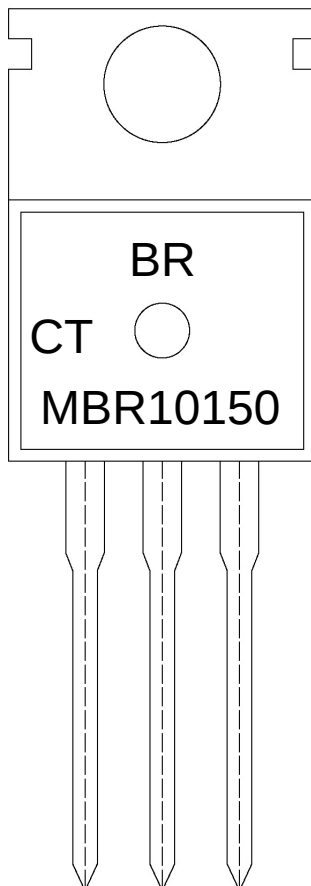
/ Package Dimensions

单位: mm TO-220 单



DIMENSIONS IN MILLIMETERS			DIMENSIONS IN MILLIMETERS		
Symbol	Min	Max	Symbol	Min	Max
A	9.8	10.2	C	1.2	1.4
B1	9.0	9.4	F	0.3	0.4
C	1.2	1.4	H	1.2	1.4
a	0.4	0.6	K	0.2	0.3
b1	0.2	0.3	L	0.2	0.3
C1	0.2	0.3			
a1	0.2	0.3			
F	0.2	0.3			
H	1.2	1.4			
K	0.2	0.3			
L	0.2	0.3			

/ Marking Instructions



BR

MBR10150

CT:

Note:

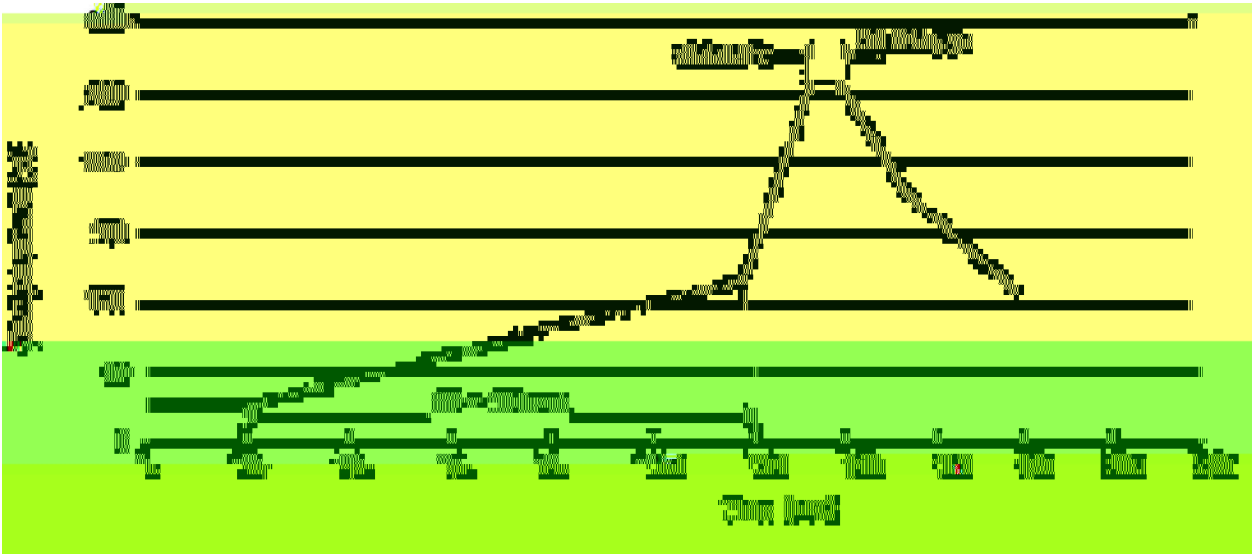
BR: Company Code

MBR10150 Product Type.

CT: Internal Structure

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

() / 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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Units 包装数量		Dimension 包装尺寸 (unit: mm ³)				
	盒箱	只箱	袋	盒	箱	

/ TUBE

Package Type 封装形式	Units 包装数量	Dimension 包装尺寸 (unit: mm
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