

/ Descriptions

1.0A MBF
1.0A Surface Mount Glass Passivated Bridge Rectifier, MBF thin package。

/ Features

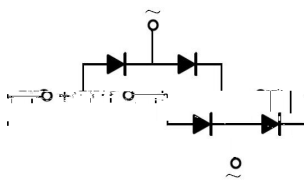
100V~1000V 1.0A

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current: 1.0A, High Surge Current Capability, Designed for Surface Mount Application,HF Product.

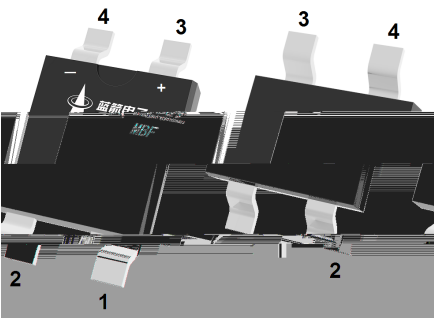
/ Applications

General purpose.

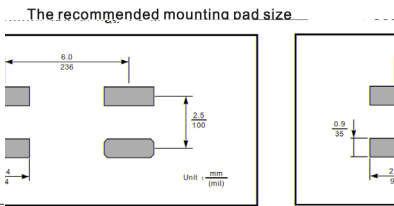
/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating						Unit
		MB1F-10	MB2F-10	MB4F-10	MB6F-10	MB8F-10	MB10F-10	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T _c =125 °C	I _{F(AV)}	1.0						A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35						A
Typical Junction Capacitance ¹⁾	C _j	13						pF
Typical Thermal Resistance ²⁾	R _{θJA}	80						/W
	R _{θJC}	25						
Operating and Storage Temperature Range	T _j ,T _{stg}	-55~+150						

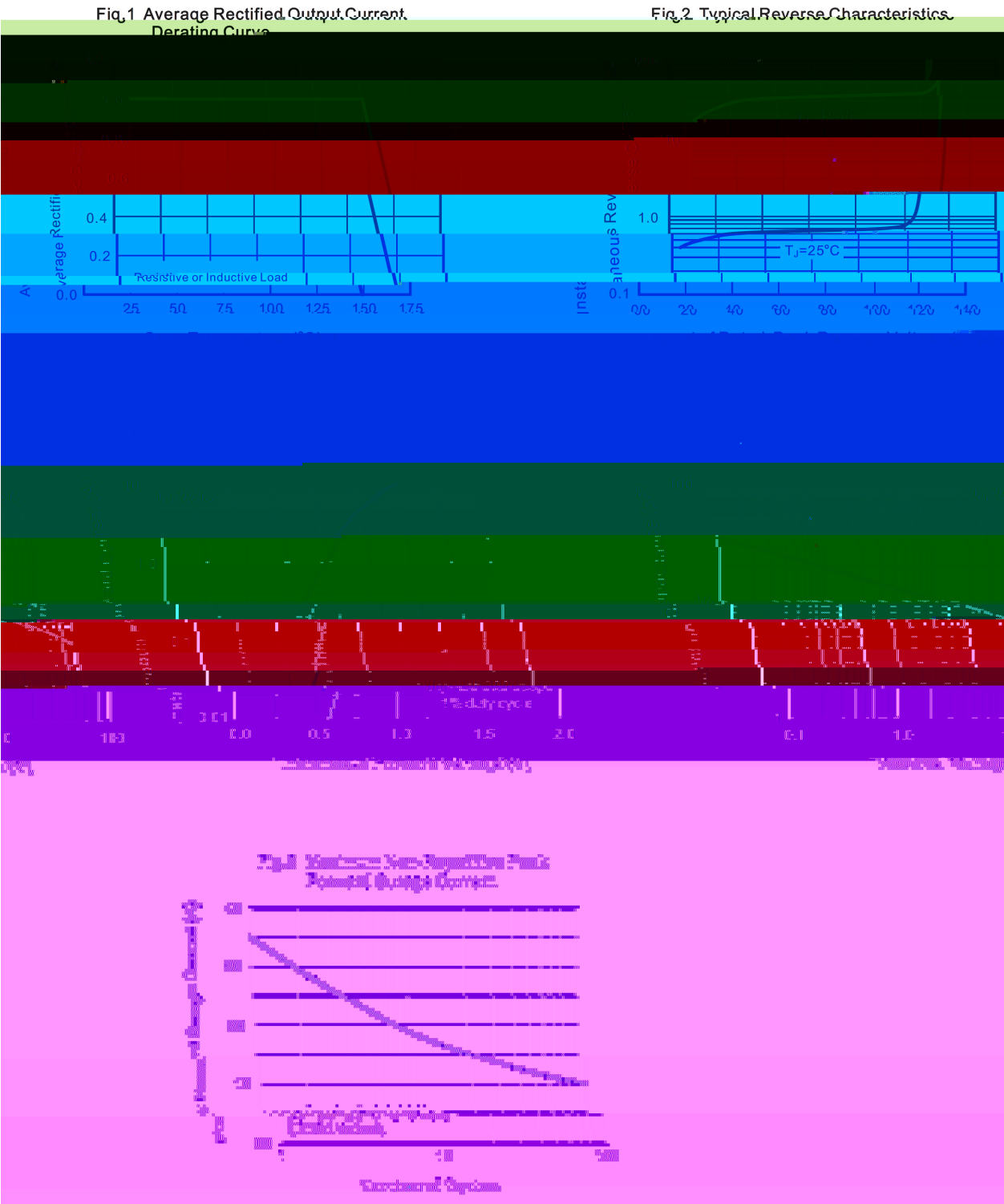
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with $4 \times 1.5'' \times 1.5''$ 3.81×3.81 cm copper pad.

/ Electrical Characteristics(Ta=25)

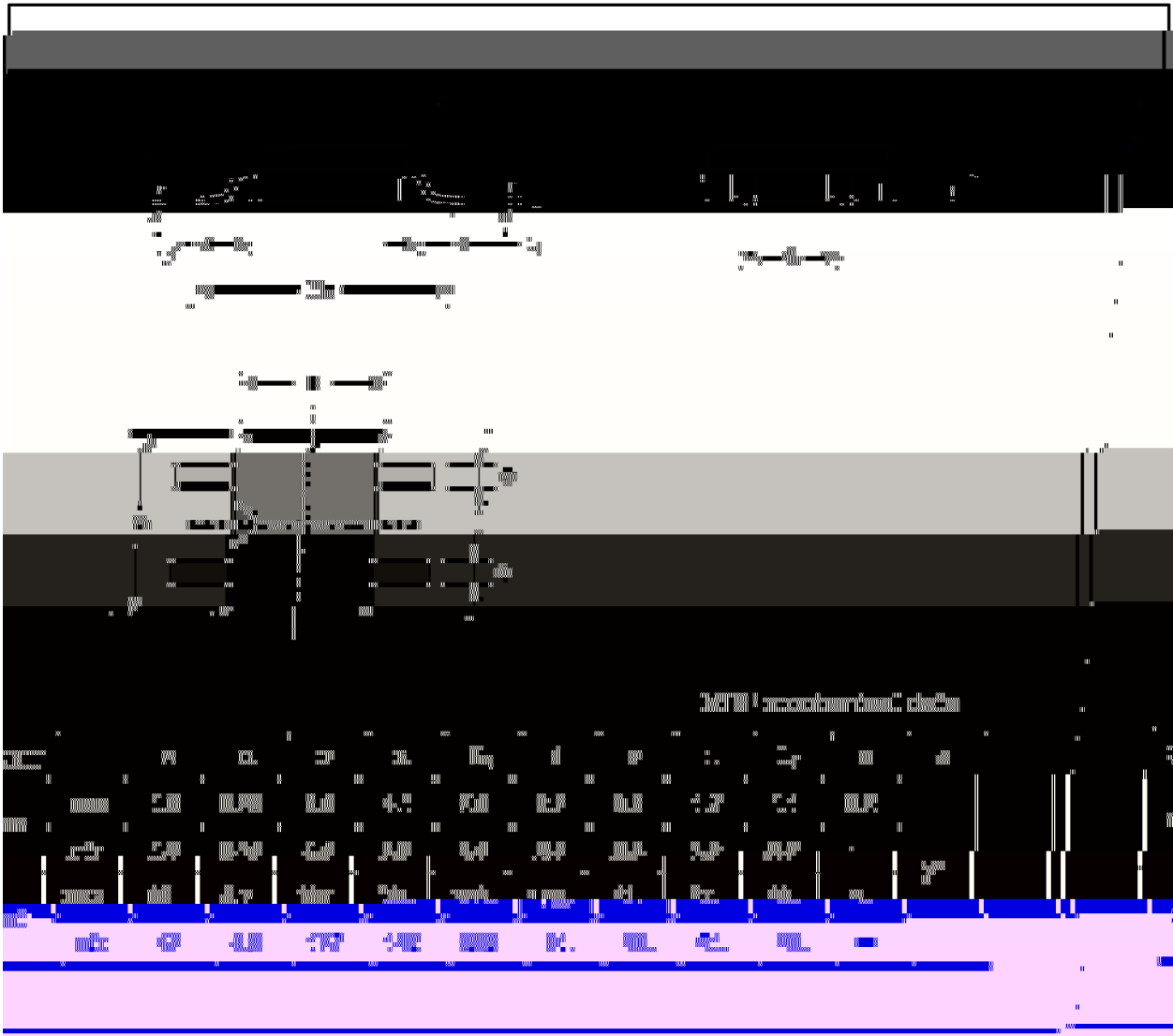
Parameter	Symbol	Test Conditions	数值 Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=1.0\text{A}$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25^{\circ}\text{C}$	5.0	μA
		$T_a=125^{\circ}\text{C}$	40	μA

/ Electrical Characteristic Curve



/ Package Dimensions

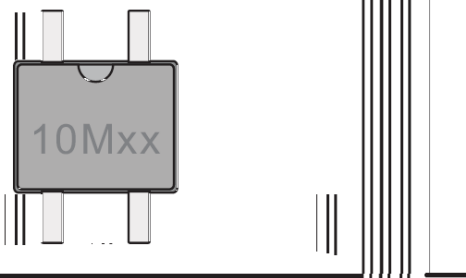
MBF



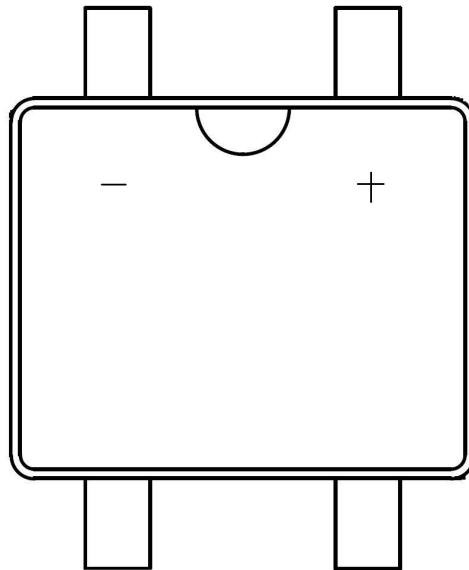
/ Marking Instructions

Marking

Type number	Marking code
III MB1F-10	10M1
III MB2F-10	10M2
III MB4F-10	10M4
III MB6F-10	10M6
III MB8F-10	10M8
I MB10F-10	10M10

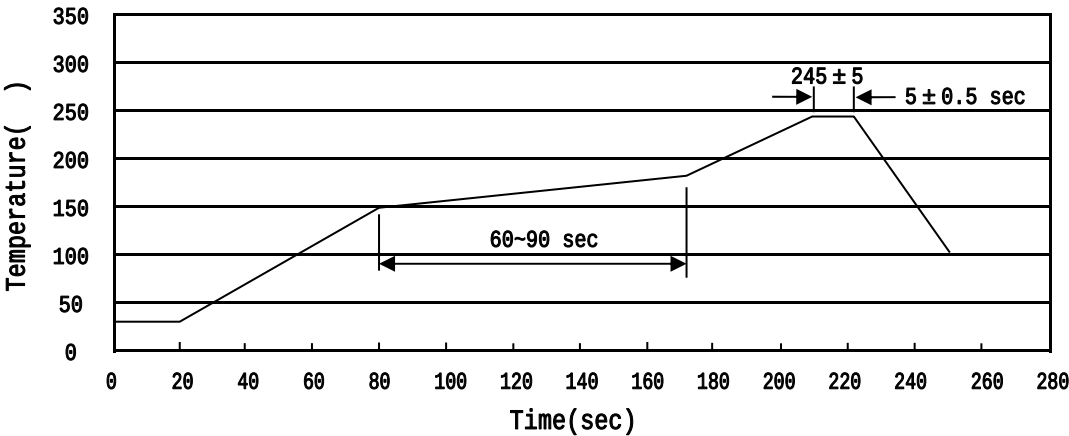


/ Marking Instructions



10M1

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Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
MBF	5,000	2	10,000	7	70,000	13" ×12	336X336X40	380X335X366

/ Notices