

5 é / Descriptions

1.0A n μ É x i ødý ... v k V ° MBF / xož
1.0A Surface Mount Glass Passivated Bridge Rectifier ÈMBF thin package Ä

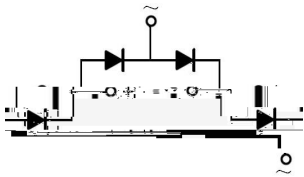
α a / Features

i ødý / Ìk F g 9 y < d < k 3 g v y ' k ~ ... v Ý k 9 n μ É x k —) i D
jož
Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current Ö1.0A, High Surge Current Capability, Designed for Surface Mount Application, HF Product.

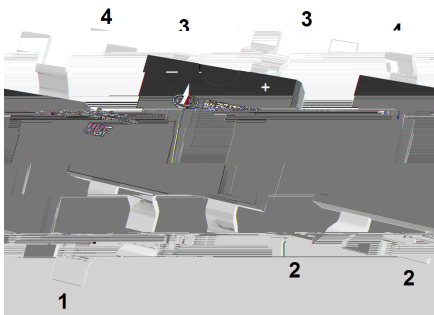
Đ ÷ / Applications

%² " (ož
General purpose.

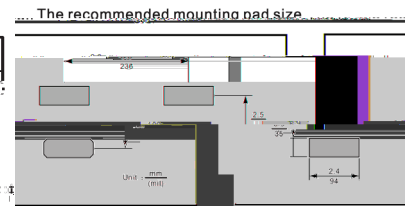
Ä W] Ô . / Equivalent Circuit



• Ô - æ / Pinning



PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Area (+)
4	Output Area (+)



, M V / Marking

• - ~ a øož See Marking Instructions.

Table 1 / Absolute Maximum Ratings(Ta=25 °C ;)

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 _{JA}	80						°C/W
	R _{JC}	25						
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150						

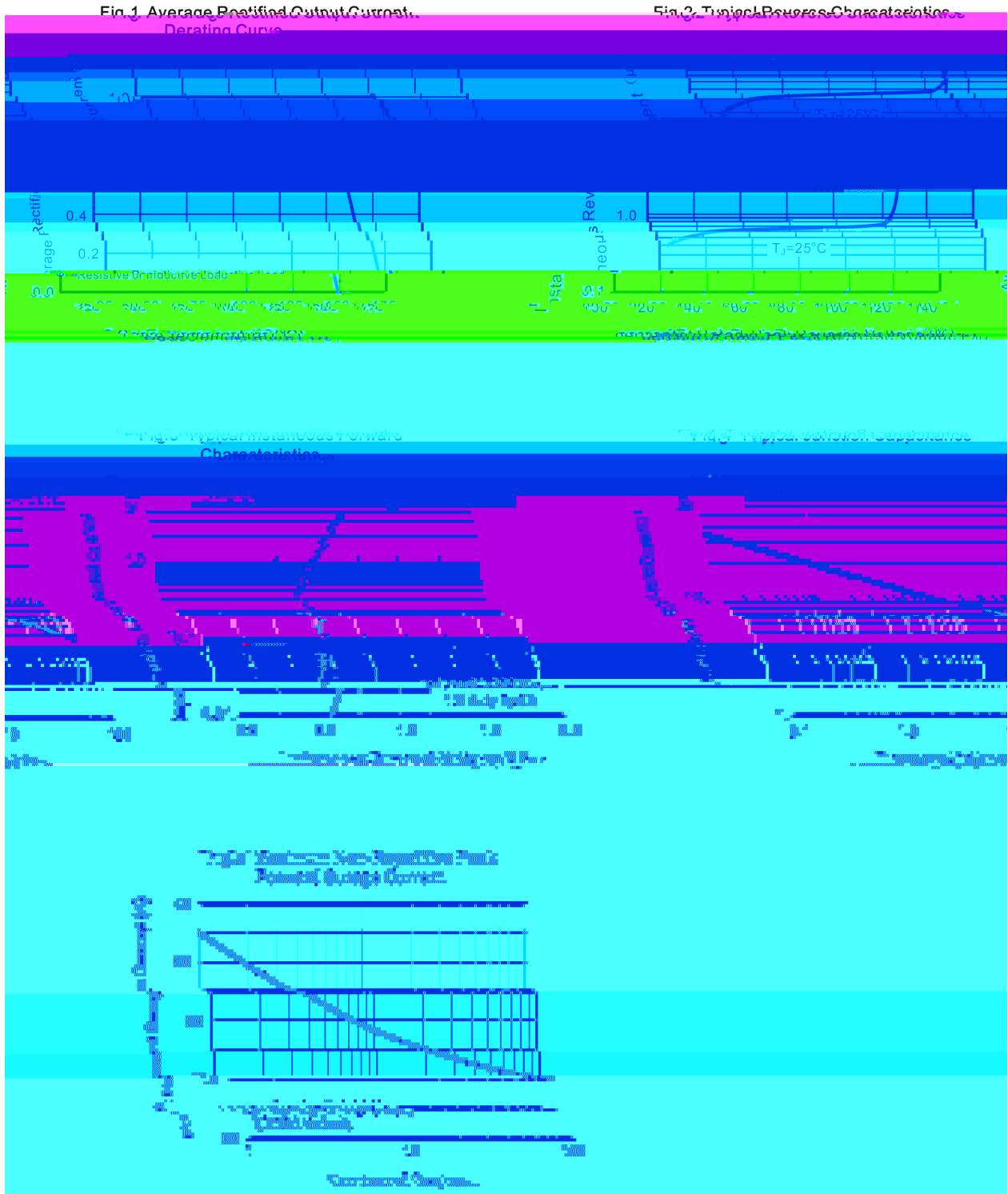
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4 h 1.5" h 1.5" g 3.81 h 3.81 cm h copper pad.

Table 2 / Electrical Characteristics(Ta=25 °C ;)

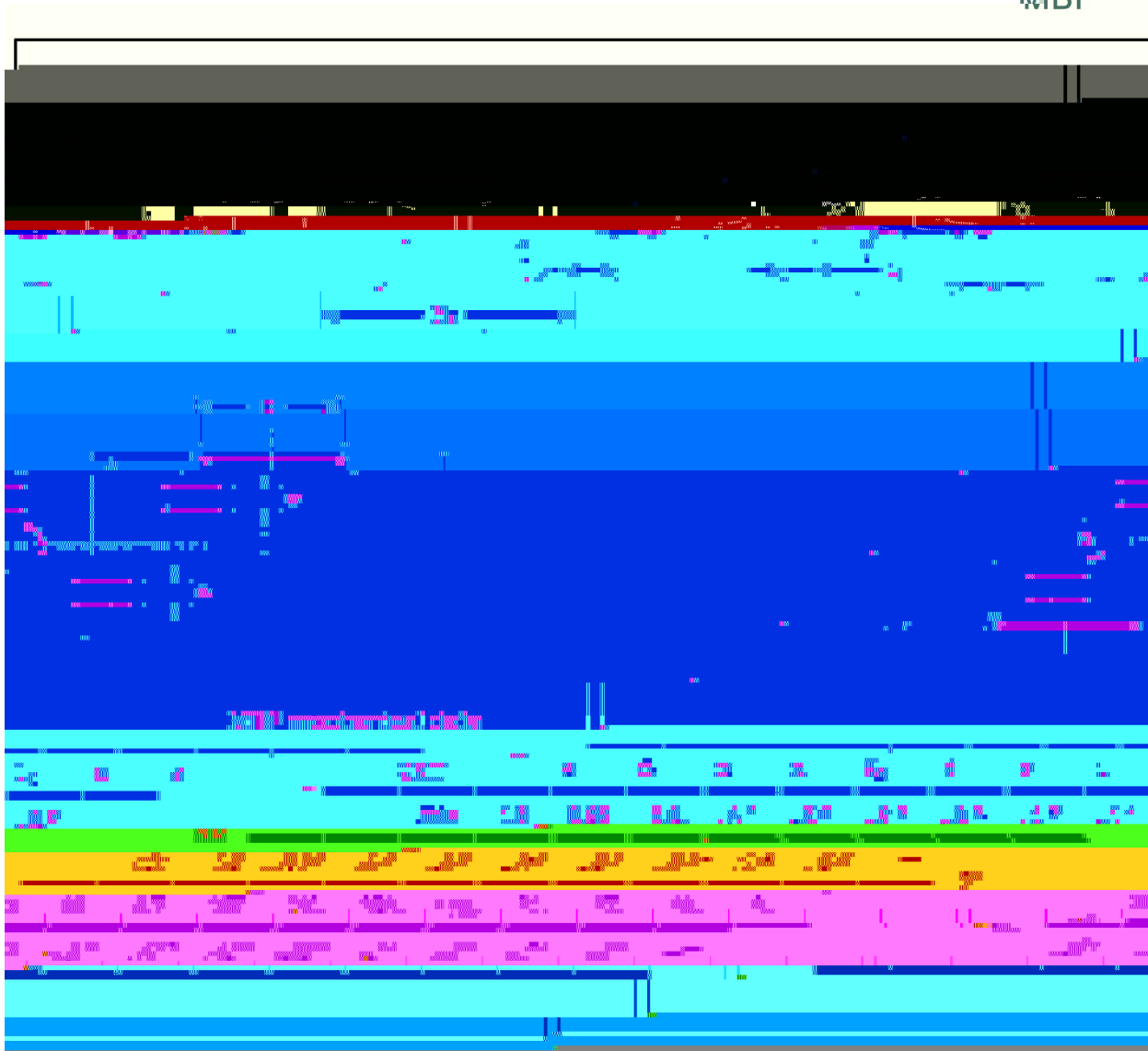
Parameter	Symbol	Test Conditions	Rating	Unit
Max Instantaneous Forward Voltage	V _F	I _F =1.0A	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25	5.0	A
		T _a =125	40	A

Electrical Characteristic Curve



∅ □ =) ∅ / Package Dimensions

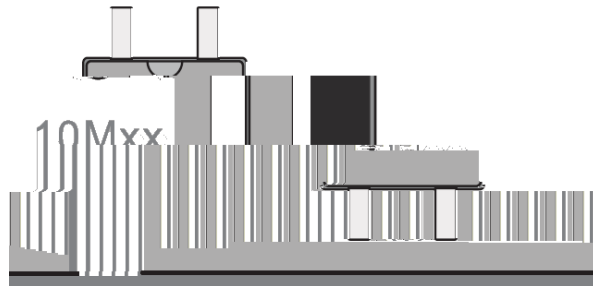
MBF



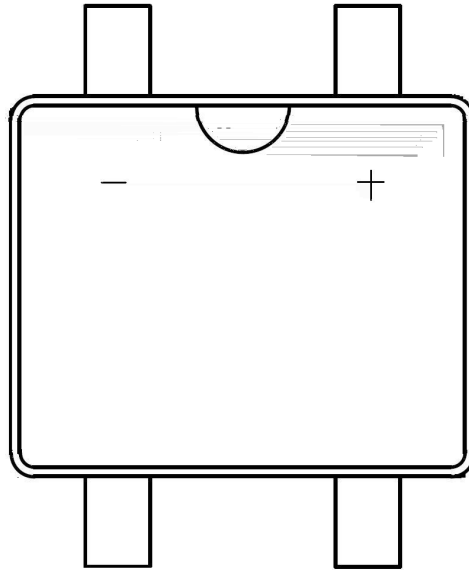
, M y f / Marking Instructions

Marking

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



, M y f / Marking Instructions



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10M1 y ° Z W A

**** y

šWD t...•Žç (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

a ç y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

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

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260 r5 -

Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Åmm ³)	
	Units/Reel /--	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box