

MB1F THRU MB10F

0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

- Glass Passivated Chip Juntion
- Reverse Voltage 50 to 1000 V
- Forward Current 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

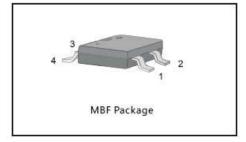
• Case: MBF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 75mg 0.0024oz

PINNING

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



Maximum Ratings and Electrical characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%

Parameter	Symbols	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Maximum Repetitive Peak Reverse Voltag	e 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 Ta = 40 °C	lo	0.8						
Peak Forward Surge Current 8.3 ms Single Sine Wave Superimposed on Rated Load (JEDEC Method)	Half I _{FSM}	25						А
Forward Voltage per element $@I_F = 0$. $@I_F = 0$.	1 1/	1.0 1.1					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @T_x=25	0°C I _R	5.0 100 500					μА	
Typical Junction Capacitance (Note1)	Ci	13						
Typical Thermal Resistance (Note2)	R _{eja} R _{ejl}	60 16						°C/W
Operating and Storage Temperature Rang	e T _j , T _{stg}			-55 ~	+150			°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 1.3mm2 copper pad.

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Fig.1 Average Rectified Output Current Derating Curve

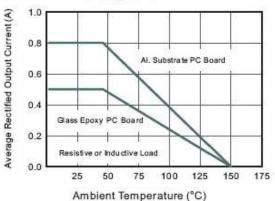


Fig.3 Typical Instaneous Forward Characteristics

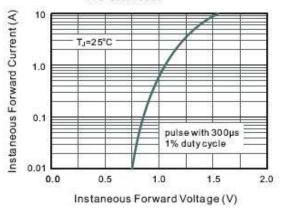


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

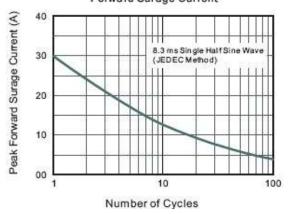


Fig.2 Typical Reverse Characteristics

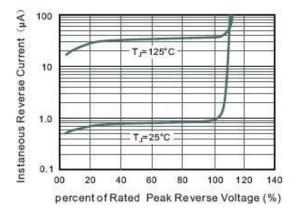
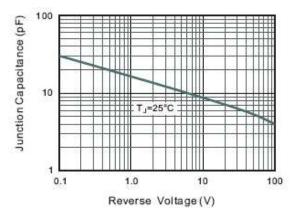


Fig.4 Typical Junction Capacitance



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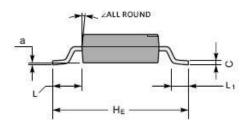


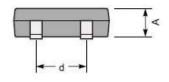
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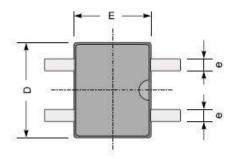
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBF



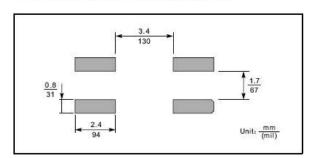




MBF mechanical data

UNIT		Α	С	D	E	He	d	е	L	L ₁	а	4
m m	max	1.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
mm	min	1.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	100	
0.0048	max	63	8.7	197	161	276	106	28	67	43	8	
mil	min	47	5.9	177	142	252	91	20	51	20	100	

The recommended mounting pad size



Marking

Type number	Marking code				
MB1F	MB1F				
MB2F	MB2F				
MB4F	MB4F				
MB6F	MB6F				
MB8F	MB8F				
MB10F	MB10F				
MB10F					

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