

**FEATURES:**

Glass Passivated Chip Junction  
 Reverse Voltage - 40 to 200 V  
 Forward Current - 2 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 ( - )



MBF Package

**Maximum Ratings and Electrical characteristics**

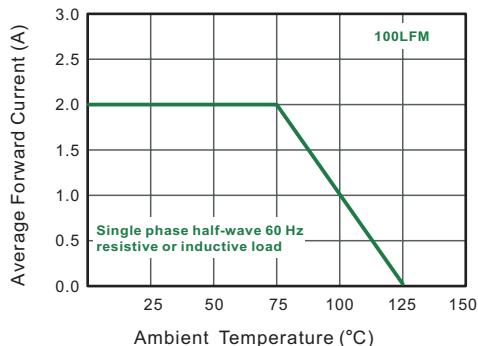
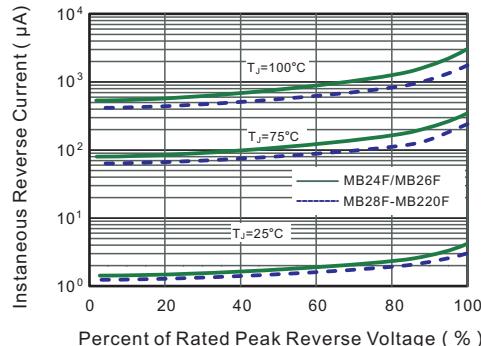
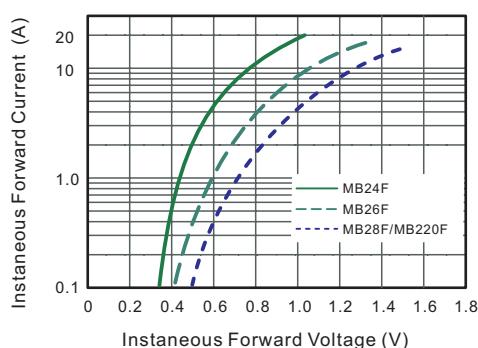
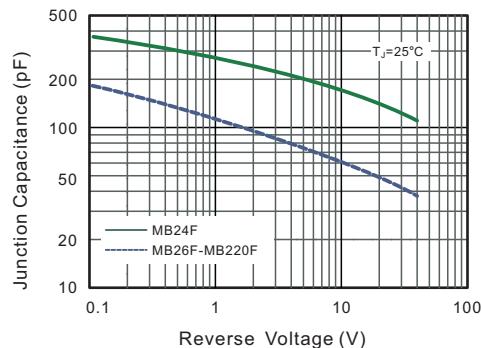
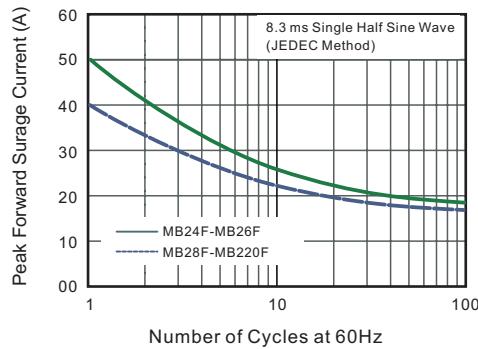
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MB24F	MB26F	M28F	MB210F	MB220F	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	60	80	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	28	42	56	70	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	60	80	100	200	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>			2.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>		50		40		A
Max Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	0.55	0.70		0.85		V
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>		0.5 10		0.3 5		mA
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>	220		80			pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>			115			°C/W
Operating Junction Temperature Range	T <sub>j</sub>			-55 ~ +125			°C
Storage Temperature Range	T <sub>stg</sub>			-55 ~ +150			°C

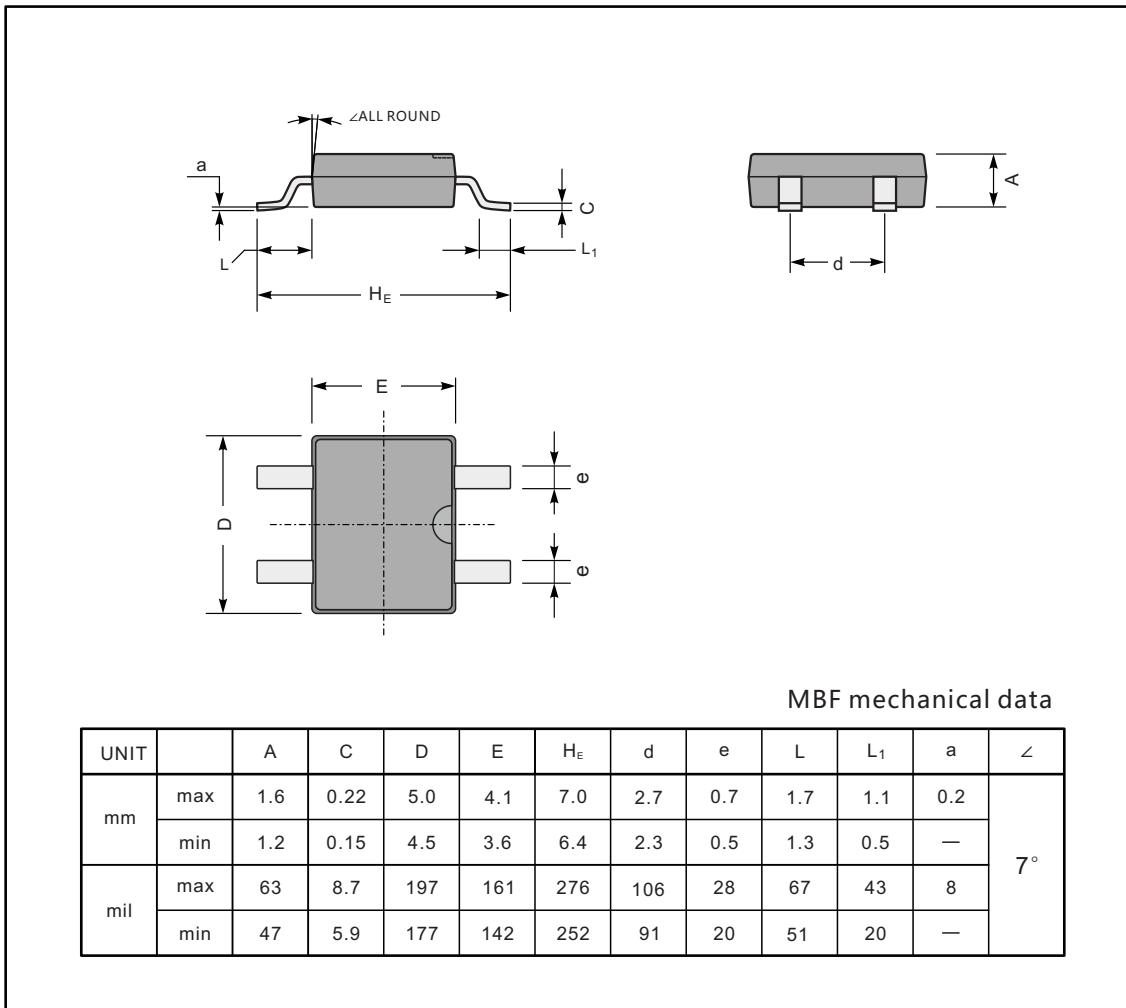
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> copper pad.

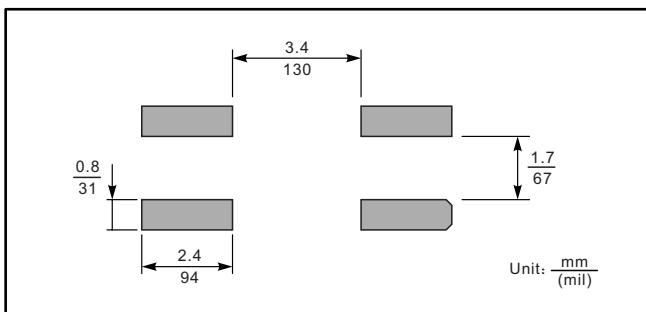
**Fig.1 Forward Current Derating Curve**

**Fig.2 Typical Reverse Characteristics**

**Fig.3 Typical Forward Characteristic**

**Fig.4 Typical Junction Capacitance**

**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**


### PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

**MBF**


### The recommended mounting pad size



### Marking

Type number	Marking code
MB24F	MB24F
MB26F	MB26F
MB28F	MB28F
MB210F	MB210F
MB220F	MB220F

