



# EMB1F THRU EMB6F

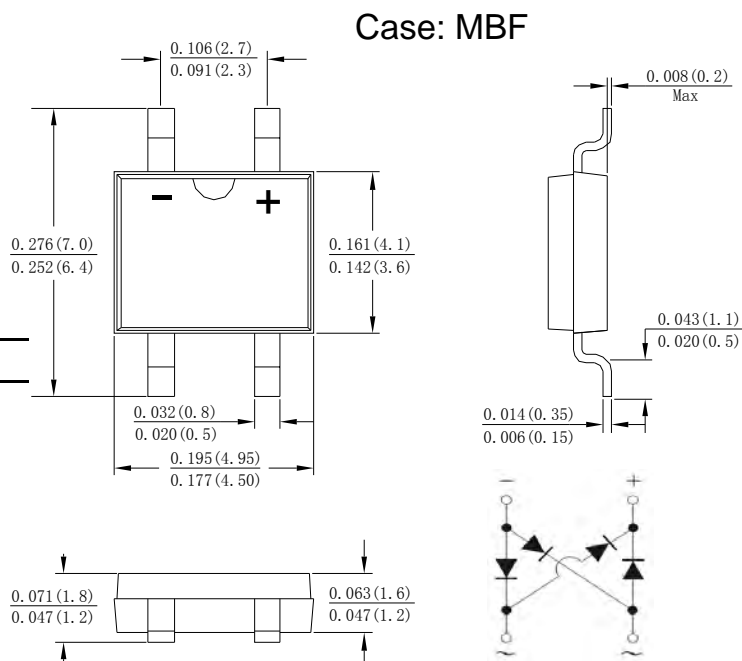
## Single Phase 0.8AMP Super Fast Glass Passivated Bridge Rectifier

### Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

### Mechanical Data

- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,



dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EMB1F	EMB2F	EMB3F	EMB4F	EMB6F	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	300	400	600	V
Working Peak Reverse Voltage	V <sub>RWM</sub>						
DC Blocking Voltage	V <sub>DC</sub>						
RMS Reverse Voltage	V <sub>RMS</sub>	70	140	210	280	420	V
Average Rectified Output Current (Note 1)@T <sub>C</sub> =100℃ (Note 2)@T <sub>C</sub> =100℃	IF(AV)	0.5 0.8					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30					A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	3.735					A <sup>2</sup> s
Forward Voltage per element @IF=0.8A	V <sub>FM</sub>	0.95		1.25		1.7	V
Peak Reverse Current @T <sub>J</sub> =25℃ At Rated DC Blocking Voltage @T <sub>J</sub> =125℃	I <sub>R</sub>	5.0 100					uA
Maximum reverse recovery time (Note 3)	T <sub>RR</sub>	35					nS
Typical Junction Capacitance (Note4)	C <sub>J</sub>	13					pF
Typical Thermal Resistance	R <sub>θJA</sub>	60					℃/W
	R <sub>θJL</sub>	16					
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55to+150					℃

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

2. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.

3. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A

4. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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Fig. 1 Output Current Derating Curve

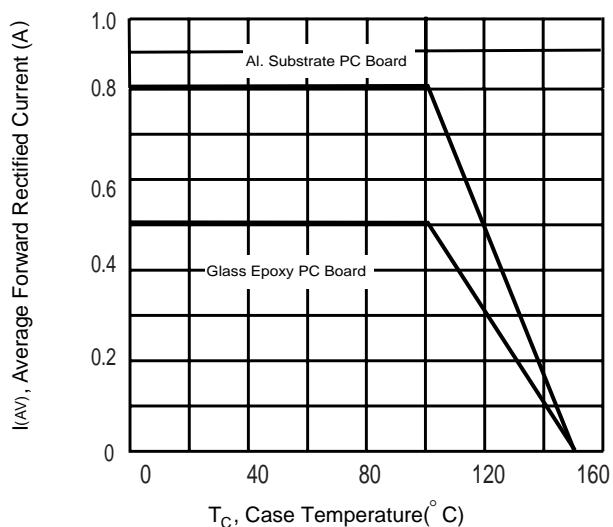


Fig. 2 Typical Forward Characteristics

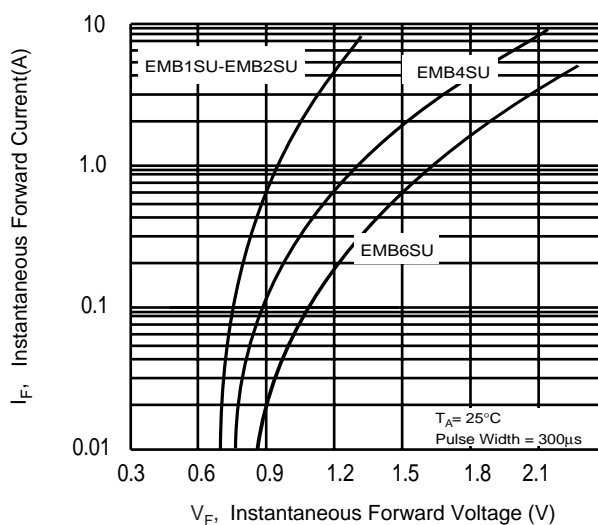


Fig.3 Maximum Peak Forward Surge Current

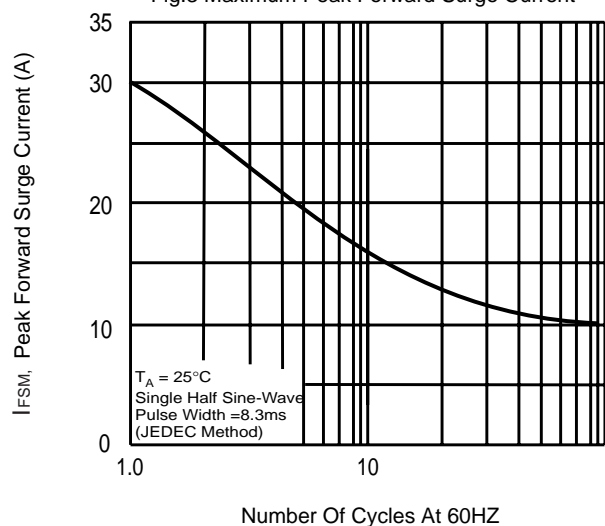


Fig. 4 Typical Junction Capacitance

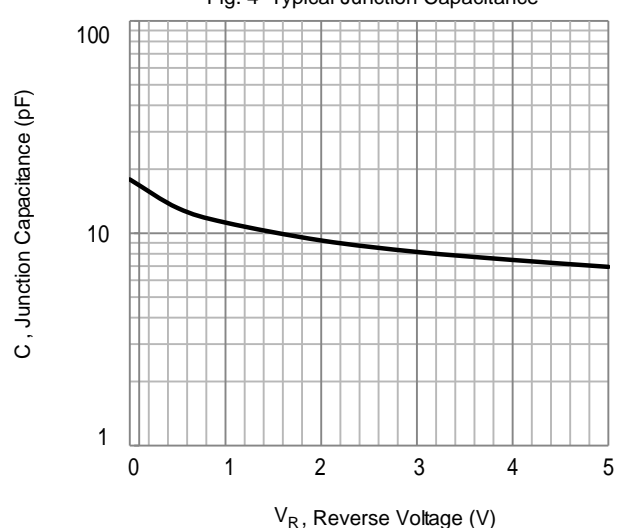


Fig.5 Typical Reverse Characteristics

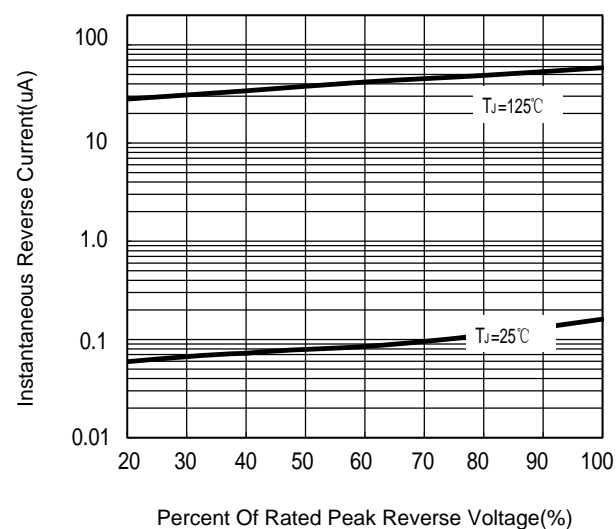
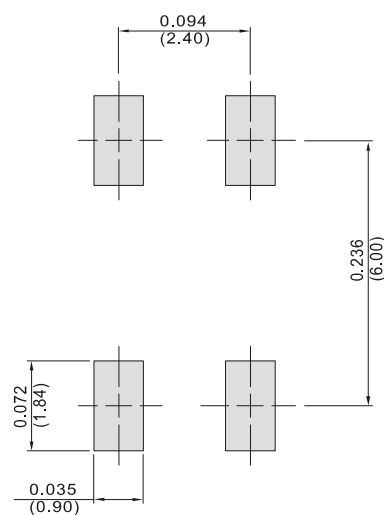


Fig.6 Mounting Pad Layout





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