



# RMB1F THRU RMB10F

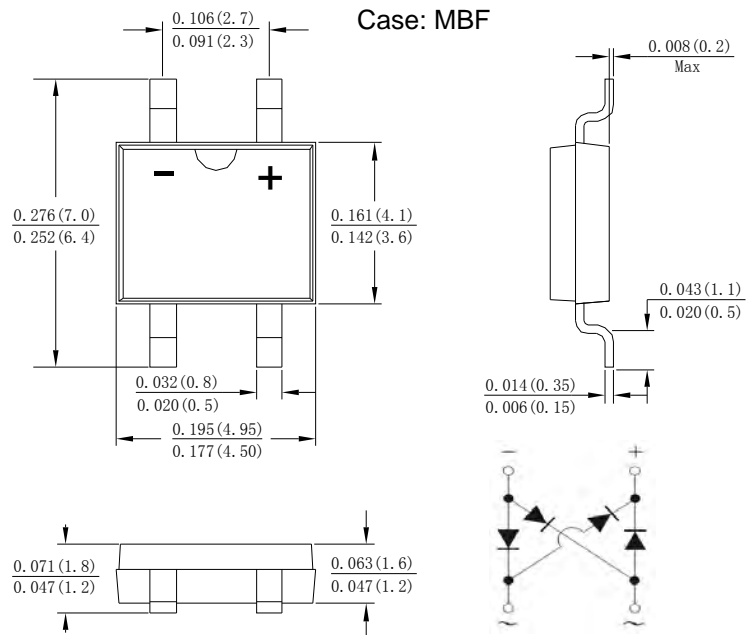
Single Phase 0.8AMP Fast Glass Passivated Bridge Rectifier

## Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board  
Surge overload rating-30A peak
- 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	RMB1F	RMB2F	RMB4F	RMB6F	RMB8F	RMB10F	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
	V <sub>RWM</sub>							
	V <sub>DC</sub>							
RMS Reverse Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>C</sub> =100 °C (Note 2)@T <sub>C</sub> =100 °C	I <sub>F(AV)</sub>	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=1.0A	V <sub>FM</sub>	1.3						V
Peak Reverse Current @T <sub>J</sub> =25 °C At Rated DC Blocking Voltage @T <sub>J</sub> =125 °C	I <sub>R</sub>	5.0 100						uA
Maximum reverse recovery time (Note 3)	T <sub>RR</sub>	150			250	500		ns
Typical Junction Capacitance (Note 4)	C <sub>J</sub>	13						pF
Typical Thermal Resistance	R <sub>θJA</sub>	60						°C/W
	R <sub>θJL</sub>	16						
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55to+150						°C

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.



# RMB1F THRU RMB10F

## Single Phase 0.8AMP Fast Glass Passivated Bridge Rectifier

Fig. 1 Output Current Derating Curve

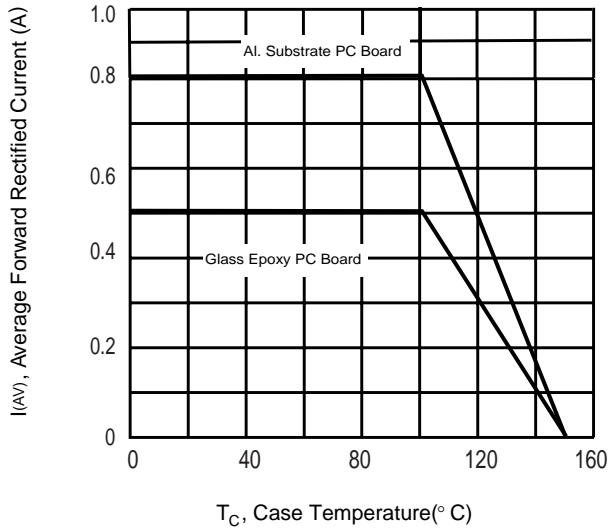


Fig. 2 Typical Forward Characteristics

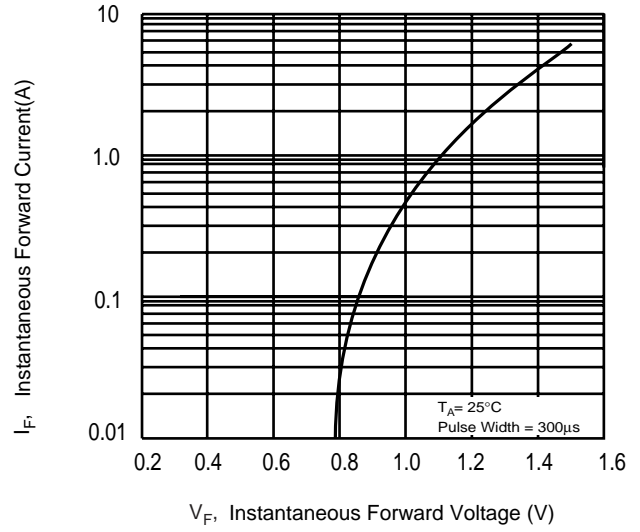


Fig.3 Maximum Peak Forward Surge Current

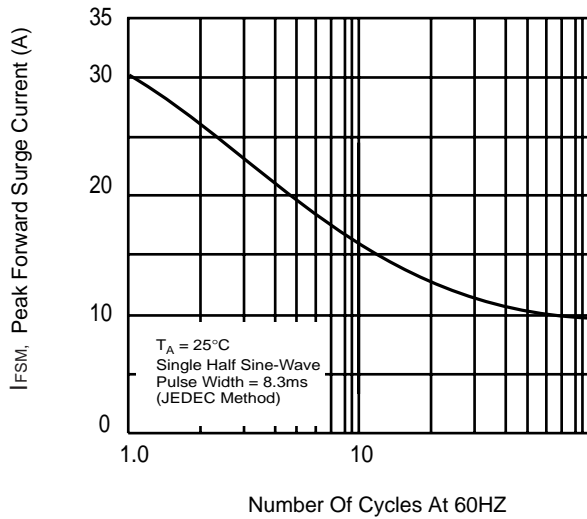


Fig. 4 Typical Junction Capacitance

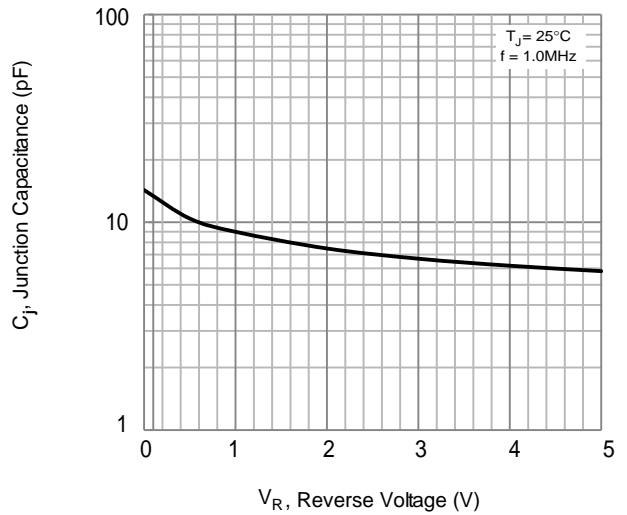


Fig.5 Typical Reverse Characteristics

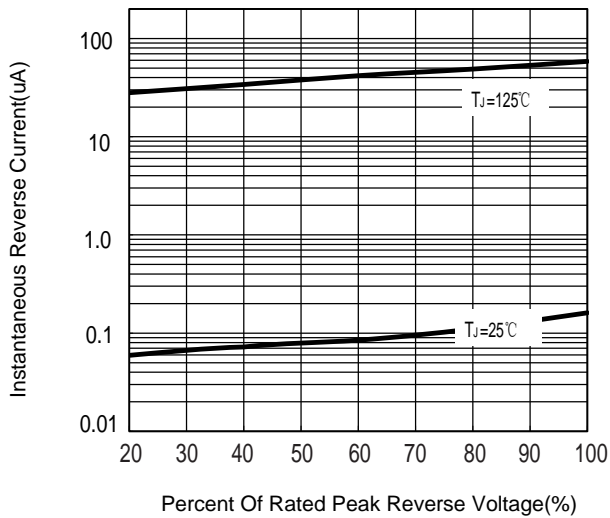
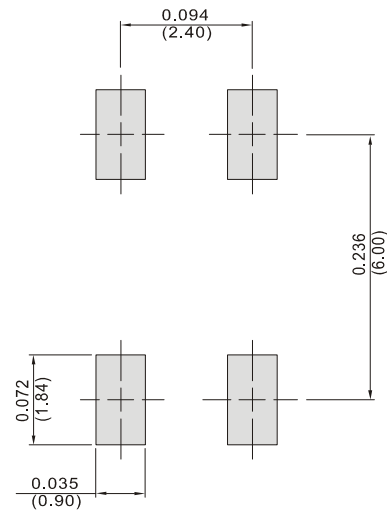


Fig.6 Mounting Pad Layout





## Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUO reserves the right to make changes to this document and its products and specifications
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.  

XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.