

# MB05M THRU MB10M

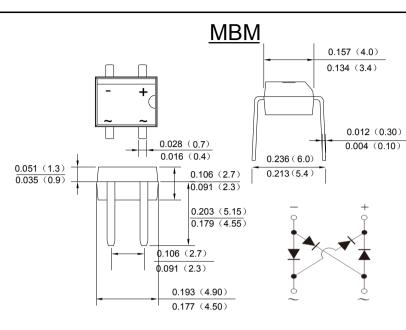
SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### 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:Reliable low cost construction
  utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity: As Marked on Case
- Mounting Position:Any
- Marking:Type Number



#### dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

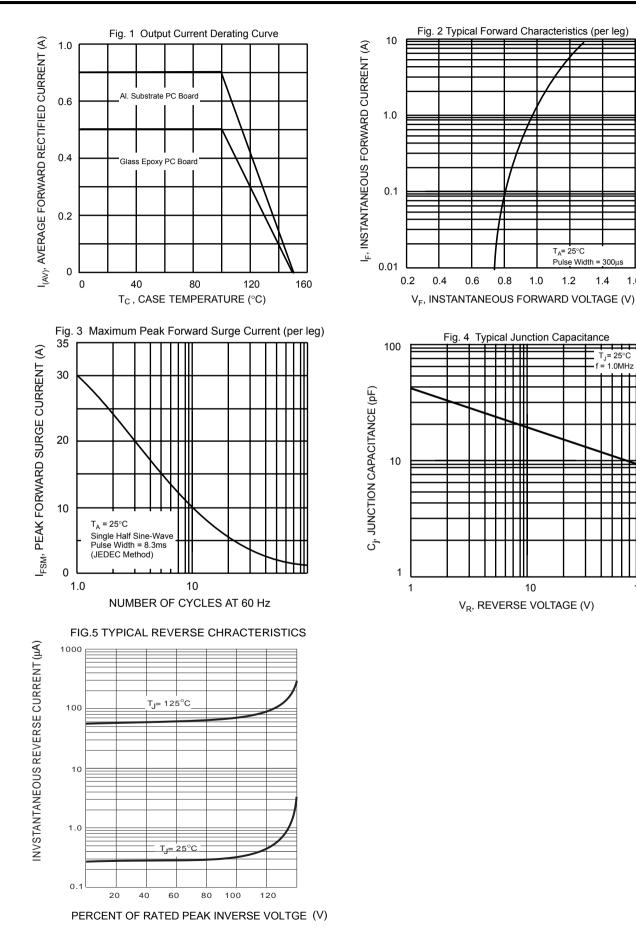
TYPE NUMBER	SYMBOL	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	Vrms	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100℃ (Note 2)@Tc=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)	Ігѕм	30							A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	3.735						A <sup>2</sup> s	
Forward Voltage per element @IF=0.5A Forward Voltage per element @IF=0.8A	Vfm	0.95 1.0							V
Peak Reverse Current @T <sub>A</sub> =25℃ At Rated DC Blocking Voltage @T <sub>A</sub> =125℃	lr	5.0 200							uA
Typical Junction Capacitance per leg (Note 3)	CJ	13							pF
Typical Thermal Resistance per leg	Reja	60							°C/W
	Rejl	16							
Operating and Storage Temperature Range	TJ,TSTG		-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. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



# **MB05M THRU MB10M**



1.6

100

T<sub>J</sub>= 25°C = 1.0MHz



## **Important Notice and Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- •XINNUOreserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- •XINNUOdisclaims 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 ris k andagree to fully indemnifyXINNUOfor 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.