

# **MB05FU THRU MB10FU**

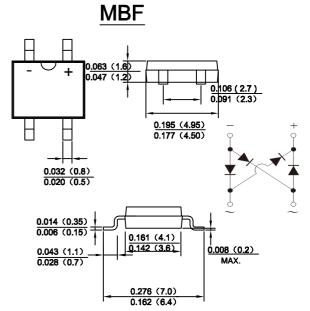
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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	MB05FU	MB1FU	MB2FU	MB4FU	MB6FU	MB8FU	MB10FU	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum average forward rectified current @T_c=100 $^{\circ}\mathrm{C}$	IF(AV)	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsм	35							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	5.083							A <sup>2</sup> s
Forward Voltage per element @IF=0.5A @IF=1.0A	VFM	0.95 1.0							V
Peak Reverse Current	lR	5.0 200							uA
Typical Junction Capacitance per leg (Note 1)	Cı	25							pF
Typical Thermal Resistance per leg (Note 2)	RөJA	60							°C/W
	Rejl	16							
Operating and Storage Temperature Range	Т <sub>Ј</sub> ,Тѕтс	-55to+150							$^{\circ}\!\mathbb{C}$

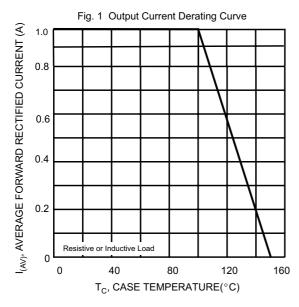
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

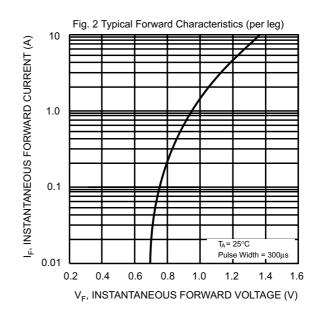
2.Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm)copper pads.

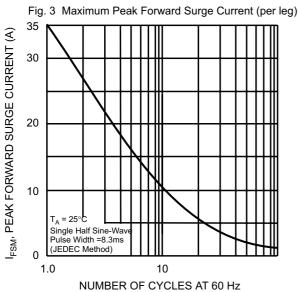
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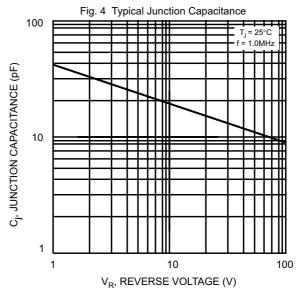


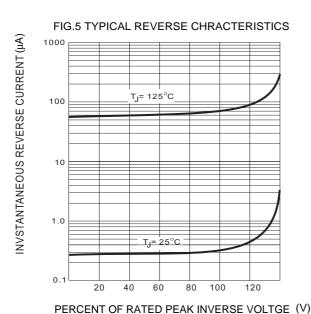
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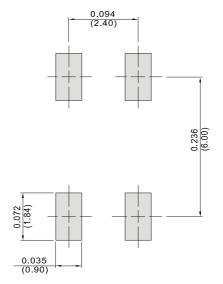














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