

# MB05FU THRU MB10FU

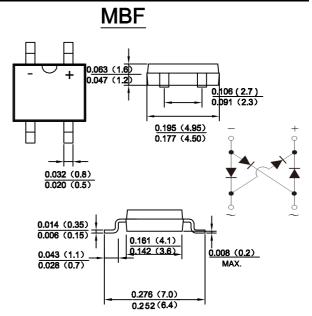
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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%.

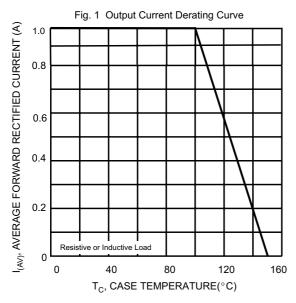
For capacitive load, derate current by 20%.									I
TYPE NUMBER	SYMBOL	MB05FU	MB1FU	MB2FU	MB4FU	MB6FU	MB8FU	MB10FU	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum average forward rectified current @T <sub>C</sub> =100°C	IF(AV)	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	35							Α
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 @T」=25 ℃ At Rated DC Blocking Voltage @T」=125 ℃	lr	5.0 100							uA
Typical Junction Capacitance (Note 1)	Cı	15							pF
Typical Thermal Resistance	RөJA	60							°C/W
	Rejl	16							
Operating and Storage Temperature Range	Т <sub>Ј</sub> ,Тѕтс	-55to+150							$^{\circ}\!\mathbb{C}$

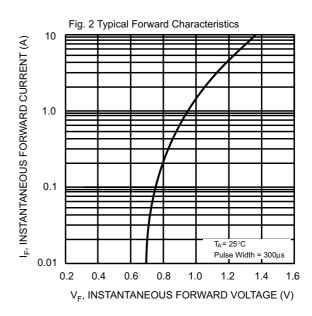
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

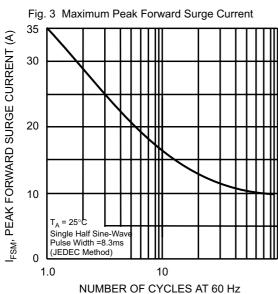
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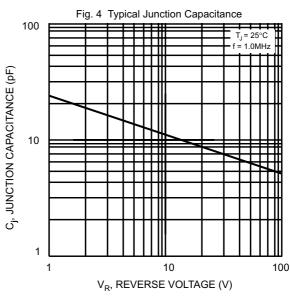


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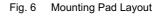


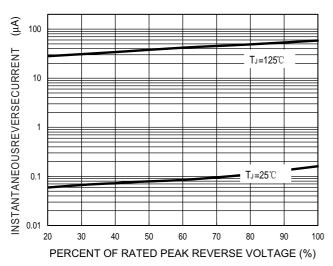


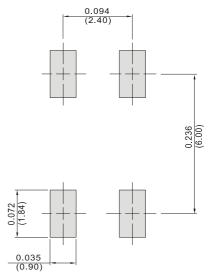












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