

MB05F THRU MB10F

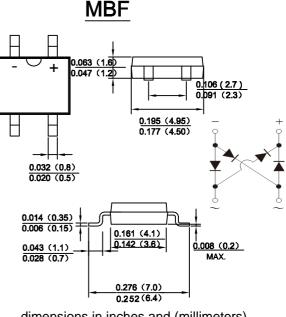
SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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%

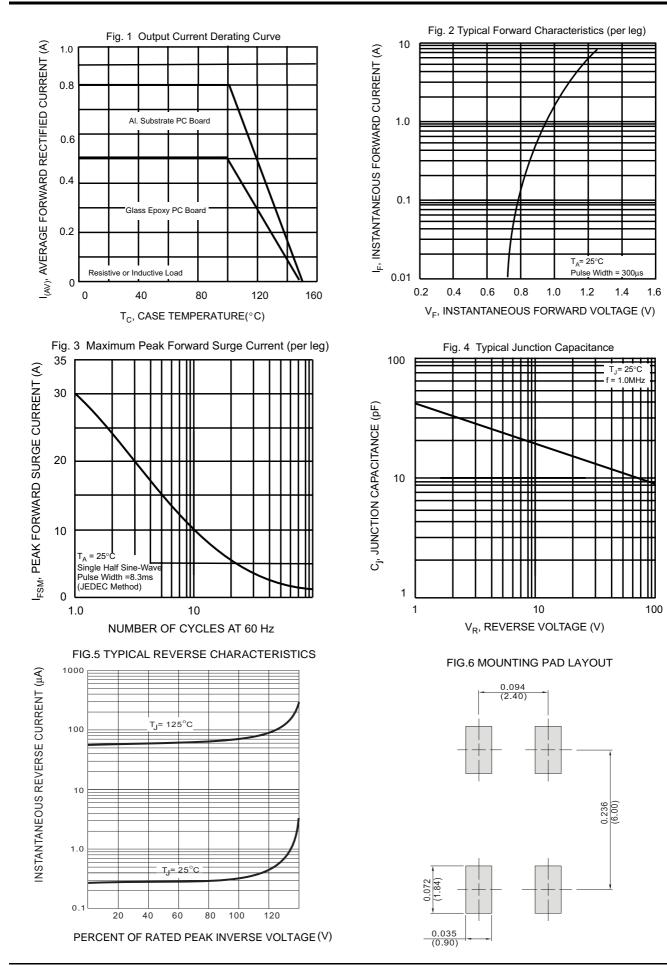
TYPE NUMBER	SYMBOL	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm								V	
	VRWM	50	100	200	400	600	800	1000		
	VDC									
RMS Reverse Voltage	Vrms	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1)@Tc=1 (Note 2)@Tc=10		0.5 0.8							А	
Non-Repetitive Peak Forward Surge Current 8.3m Single half sine-wave superimposed on rated load (JEDEC Method)		30						A		
I ² t Rating for Fusing (t < 8.3ms)	l²t				3.735				A ² s	
Forward Voltage per element @IF=0.5A @IF=0.8A	Vfm	0.95 1.0							V	
Peak Reverse Current @Ta =25 ℃ At Rated DC Blocking Voltage @Ta =125 ℃	lĸ	5.0 200						uA		
Typical Junction Capacitance per leg (Note3)	CJ				13				pF	
Typical Thormal Posistanco por log	Reja	60							°C/W	
Typical Thermal Resistance per leg		16							C/ VV	
Operating and Storage Temperature Range	TJ,TSTG			-	55to+15	0			°C	

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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