

MB05F THRU MB10F

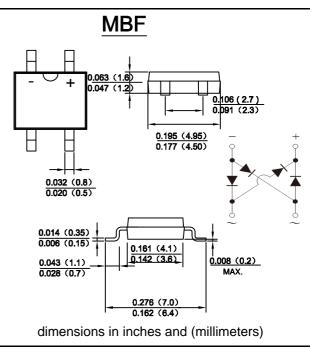
SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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,



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%.

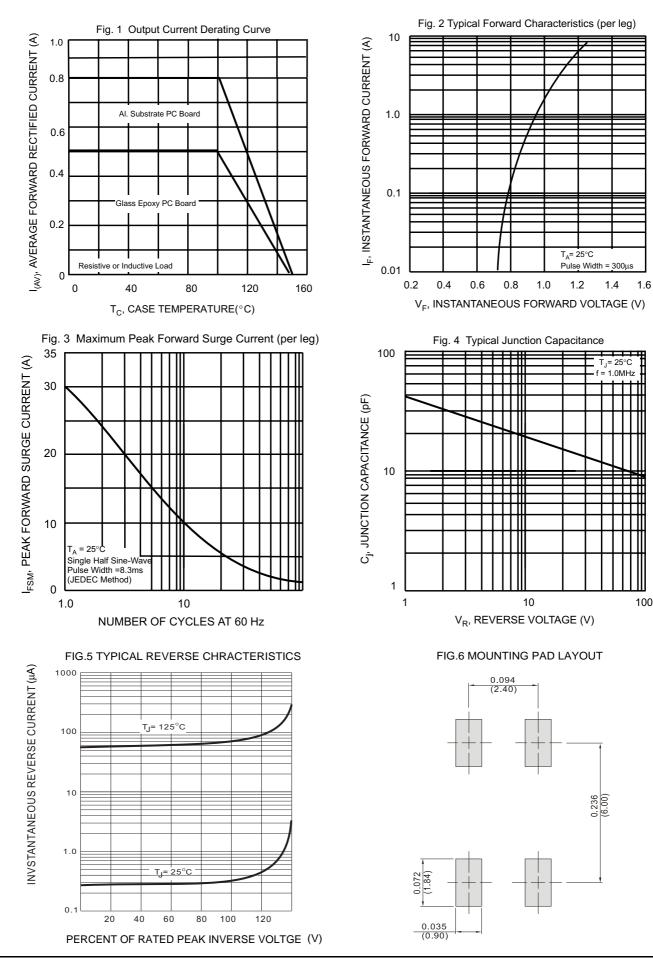
TYPE NUMBER	SYMBOL	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100℃ (Note 2)@Tc=100℃	C 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)	Ifsm	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 @T₄=25 ℃ At Rated DC Blocking Voltage @T₄=125 ℃	lr	5.0 200							uA
Typical Junction Capacitance per leg (Note3)	CJ	13							pF
Typical Thermal Resistance per leg	Reja	60							°C/W
	Rejl	16							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							°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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