山东迪一电子科技有限公司



MB05M – MB10M 🕲

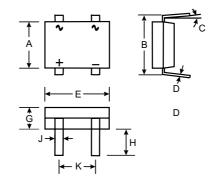




0.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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-O



МВ-М						
Dim	Min	Max				
Α	3.65	4.10				
В	4.95	5.21				
С	0	10°				
D	0.15	0.41				
E	4.50	4.95				
G	2.30	2.70				
Н	2.54					
J	0.43	0.74				
K	2.41	2.67				
All Dimensions in mm						

Mechanical Data

Case: MB-S, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Case Weight: 0.22 grams (approx.)

Mounting Position: Any Marking: Type Number

Lead Free: For RoHS / Lead Free Version,

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbo	MB05M	MB1M	MB2M	MB4M	МВ6М	MB10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	700	٧
Average Rectified Output Current (Note 1) $@T_A = 40^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo	lo 0.5 0.8						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30						А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	5.0						A ² s
Forward Voltage per element @I _F = 0.5A	VFM	1.0						V
	IRM	5.0 500						μΑ
Typical Junction Capacitance per leg (Note 3)	Cj	13						pF
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	70 20						°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +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.

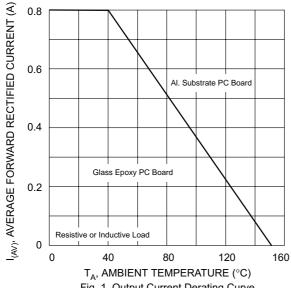
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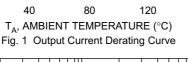


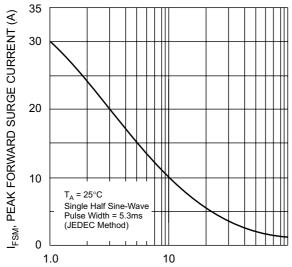
MB05M – MB10M Political Free Politic



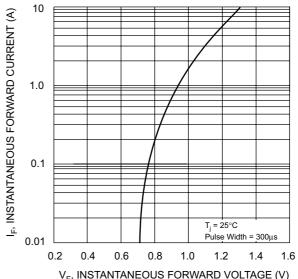




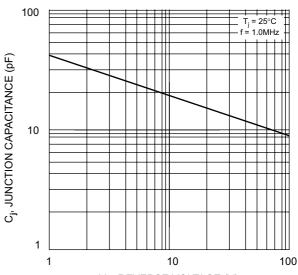




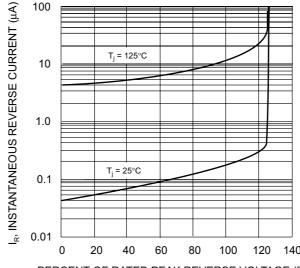
NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per leg)



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per leg)



V_R, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics (per element)