

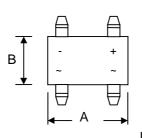
MB05F - MB10F

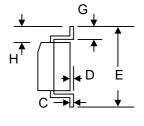
0.5A SURFACE MOUNT GLASS

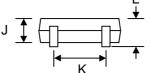
PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Surge Current Capability
- **Designed for Surface Mount Application**
- Plastic Material UL Flammability 94V-O







MB-F								
Dim	Min	Max						
Α	4.50	4.95						
В	3.60	4.10						
С	0.15	0.35						
D		0.20						
Е	6.40	7.00						
G	0.50	1.10						
Н	1.30	1.70						
J	1.20	1.60						
K	2.30	2.70						
L	_	1.80						
All Dimensions in mm								

Mechanical Data

Case: MB-F, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: As Marked on Case

Weight: 0.134 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	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 40$ °C Average Rectified Output Current (Note 2) $@T_A = 40$ °C	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)	l²t	5.0							A ² s
Forward Voltage per element @I _F = 0.5A	VFM	1.0							V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	5.0 500							μA
Typical Junction Capacitance per leg (Note 3)	Cj	13							pF
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	60 16							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-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.

Rev. 1

