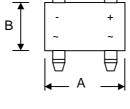
Amber Electronic Limited

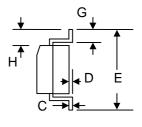
MB1S - MB10S

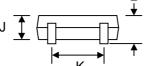
0.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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







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,

MB-S								
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	2.30	2.70						
K	2.30	2.70						
٦	_	3.00						
All Dimensions in mm								

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	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	70	140	280	420	560	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	0.5 0.8						
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
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	5.0 500						μА
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 4.0 V D.C.

