

DongGuan Tongke Electronic Co.,LTD

MB1S - MB10S

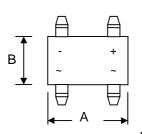


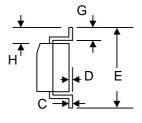


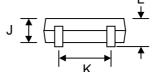
0.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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					
L	_	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	V
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
	IRM	5.0 500						
Typical Junction Capacitance per leg (Note 3)	Cj	13						
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	70 20						
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150						

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.

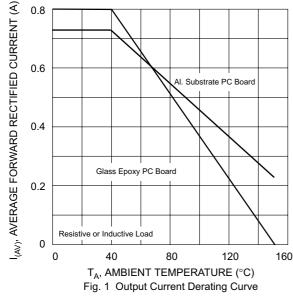


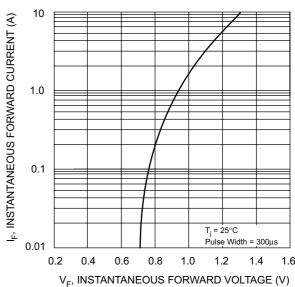
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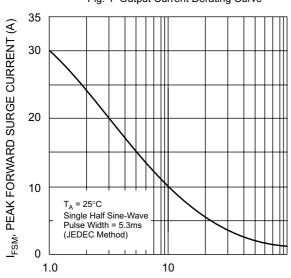
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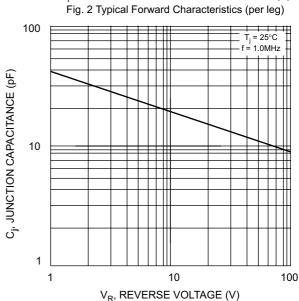












NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Peak Forward Surge Current (per leg)

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

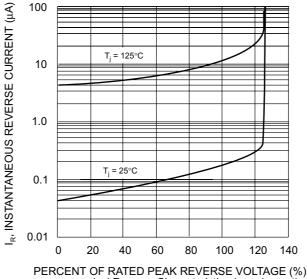


Fig. 5 Typical Reverse Characteristics (per element)