sapcon®

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

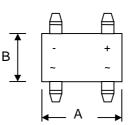
Terminals: Plated Leads Solderable per

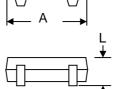
MIL-STD-202, Method 208
Polarity: As Marked on Case

• Weight: 0.22 grams (approx.)

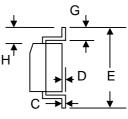
Mounting Position: AnyMarking: Type Number

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 @T_A=25°C unless otherwise specified

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

Characteristic	Symbo	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	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) $@T_A = 40^{\circ}C$ 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)	l²t	5.0							A ² s
Forward Voltage per element @I _F = 0.5A	VFM	1.0							V
	IRM	5.0 500							μА
Typical Junction Capacitance per leg (Note 3)	Cj	10							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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