

### FEATURES

- UL Recognized Component
- Ideal for Printed Circuit Board
- Simple, Compact Structure for Trouble-free Performance
- Plastic Package - UL Flammability Classification 94V-0

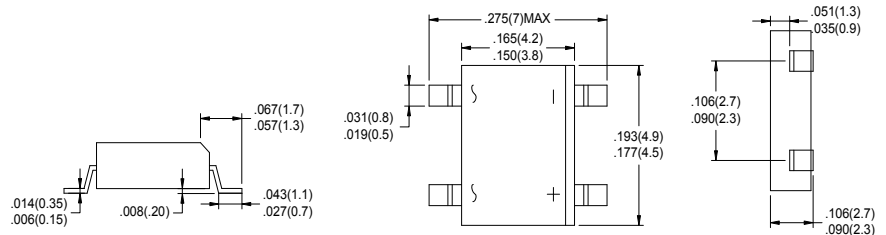
### MB05S --- MB10S



CASE:MB-S

### Mechanical Data

- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Polarity: Polarity Symbols Marked on Body



Unit: mm

### Maximum Ratings and Electrical Characteristics (Ta=25 °C unless otherwise noted)

Characteristic	Symbo	MB05S	MB1S	MB2S	MB4S	MB6S	MB10S	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	1000	V
Working Peak Reverse Voltage DC	V <sub>RWM</sub>							
Blocking Voltage	V <sub>R</sub>							
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	700	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 40°C	I <sub>O</sub>	0.5						A
Average Rectified Output Current (Note 2) @T <sub>A</sub> = 40°C		0.8						
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30						A
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	5.0						A <sup>2</sup> s
Forward Voltage per element @ I <sub>F</sub> = 0.5A	V <sub>FM</sub>	1.0						V
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	5.0						μA
At Rated DC Blocking Voltage @T <sub>A</sub> = 125°C		500						
Typical Junction Capacitance per leg (Note 3)	C <sub>j</sub>	13						pF
Typical Thermal Resistance per leg (Note 1)		70						°C/W
		20						
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-55 to +150						°C

- Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.  
 2. 60 Hz resistive or inductive load.  
 3. For capacitive load, derate current by 20%.

**MB05S --- MB10S CHARACTERISTIC CURVES**

