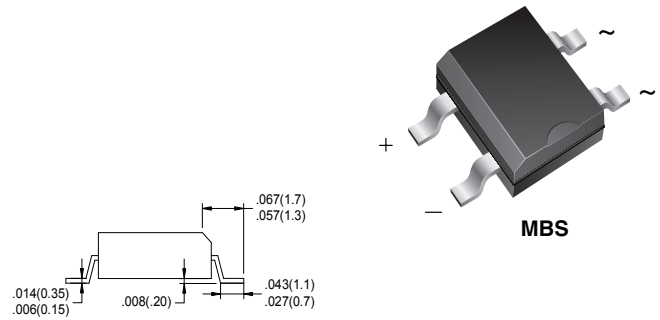
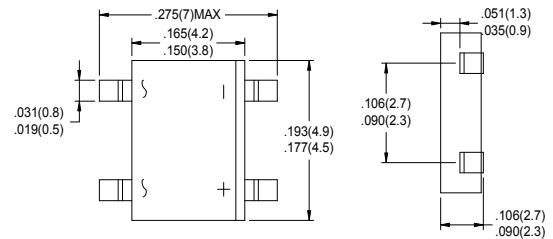


**FEATURES**

- UL Recognized Component
- High surge current capability
- Ideal for Printed Circuit Board
- Plastic Package - UL Flammability Classification 94V-0


**MECHANICAL DATA**

- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Terminals: Plated leads solderable per MTL-STD-750, Method 2026



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

| Characteristic  | Symbol                             | MB 05S      | MB 1S | MB 2S | MB 4S | MB 6S | MB 8S | MB 10S | Unit                 |
|---|------------------------------------|-------------|-------|-------|-------|-------|-------|--------|----------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$                          | 50          | 100   | 200   | 400   | 600   | 800   | 1000   | V                    |
| Maximum RMS Voltage   | $V_{RMS}$                          | 35          | 70    | 140   | 280   | 420   | 560   | 700    | V                    |
| Maximum DC Blocking Voltage   | $V_{DC}$                           | 50          | 100   | 200   | 400   | 600   | 800   | 1000   | V                    |
| Average Rectified Output Current @ $T_A = 40^\circ\text{C}$   | $I_{F(AV)}$                        | 0.8         |       |       |       |       |       |        | A                    |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$                          | 30          |       |       |       |       |       |        | A                    |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )   | $I^2t$                             | 5.0         |       |       |       |       |       |        | $\text{A}^2\text{s}$ |
| Forward Voltage per element @ $I_F = 0.5\text{A}$   | $V_{FM}$                           | 1.0         |       |       |       |       |       |        | V                    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25^\circ\text{C}$ @ $T_A=100^\circ\text{C}$      | $I_{RM}$                           | 5.0<br>500  |       |       |       |       |       |        | $\mu\text{A}$        |
| Typical Junction Capacitance per leg (Note1)  | $C_j$                              | 13          |       |       |       |       |       |        | pF                   |
| Typical Thermal Resistance per leg (Note 2)   | $R_{\theta JA}$<br>$R_{\theta JL}$ | 70<br>20    |       |       |       |       |       |        | $^\circ\text{C/W}$   |
| Operating and Storage Temperature Range   | $T_j, T_{STG}$                     | -55 to +150 |       |       |       |       |       |        | $^\circ\text{C}$     |

- Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts  
2. On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

**Typical Characteristics**

