



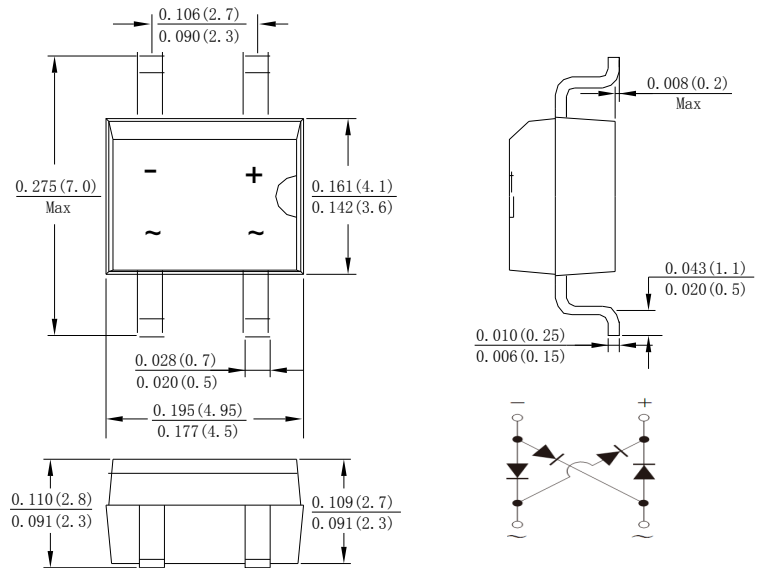
MB1SU THRU MB10SU

Single Phase 1.0AMP Surface Mount Glass Passivated Bridge Rectifier

Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-35A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Case: MBS



dimensions in inches and (millimeters)

Mechanical Data

- Case: Reliable low cost construction utilizing molded plastic technique
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number

Maximum Ratings and Electrical Characteristics

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

| TYPE NUMBER | SYMBOL | MB1SU | MB2SU | MB4SU | MB6SU | MB8SU | MB10SU | UNITS |
|---|-----------------|-------------|-------|-------|-------|-------|--------|---------------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | | | | | | |
| Working Peak Reverse Voltage | V_{RWM} | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| DC Blocking Voltage | V_{DC} | | | | | | | |
| RMS Reverse Voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current (Note 1) @ $T_c=100^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 35 | | | | | | A |
| I^2t Rating for Fusing ($t < 8.3\text{ms}$) | I^2t | 5.084 | | | | | | A^2s |
| Forward Voltage per element @ $I_F=0.5\text{A}$ @ $I_F=1.0\text{A}$ | V_{FM} | 0.95 1.0 | | | | | | V |
| Peak Reverse Current @ $T_J=25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$ | I_R | 5.0 100 | | | | | | μA |
| Typical Junction Capacitance (Note 2) | C_J | 15 | | | | | | pF |
| Typical Thermal Resistance | $R_{\theta JA}$ | 60 | | | | | | $^\circ\text{C}/\text{W}$ |
| | $R_{\theta JL}$ | 16 | | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | | $^\circ\text{C}$ |

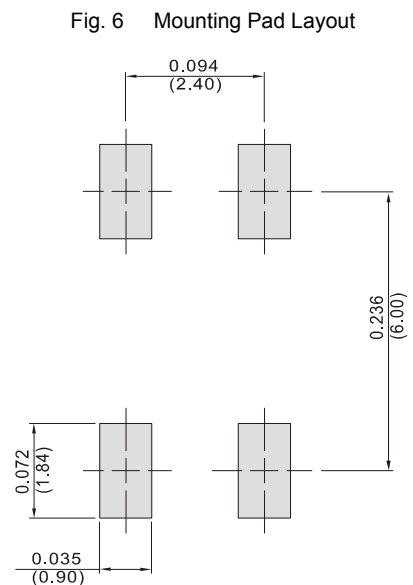
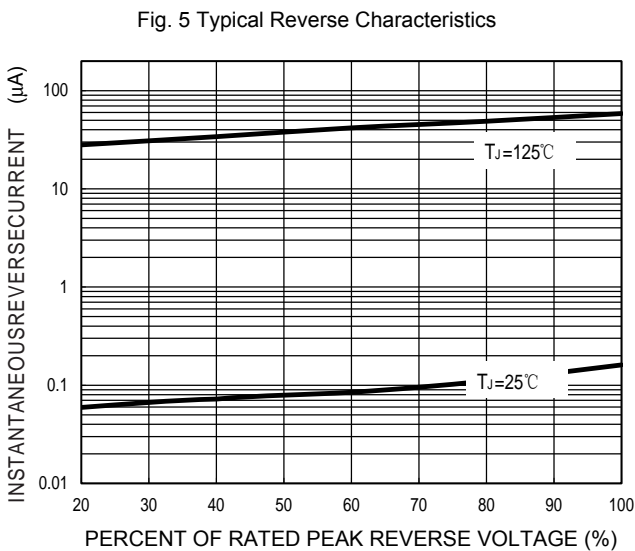
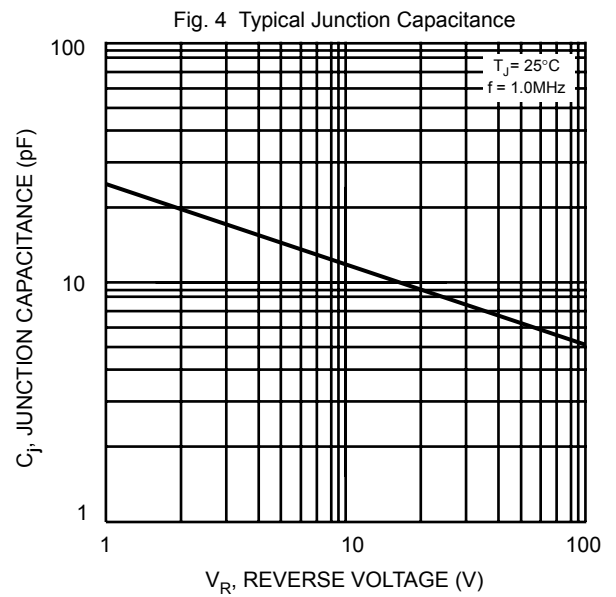
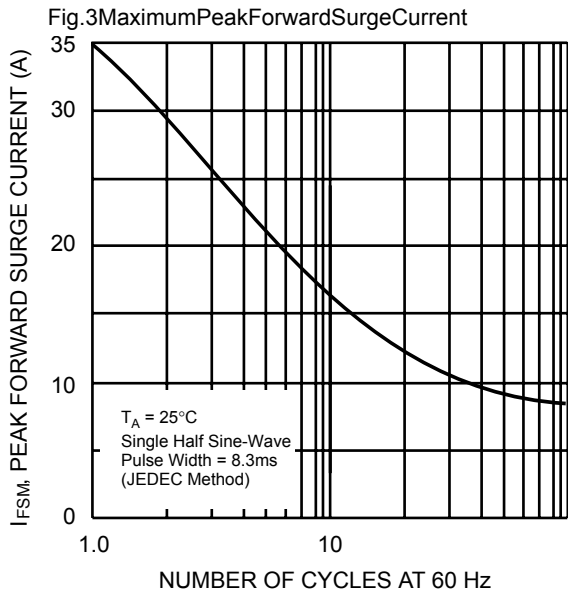
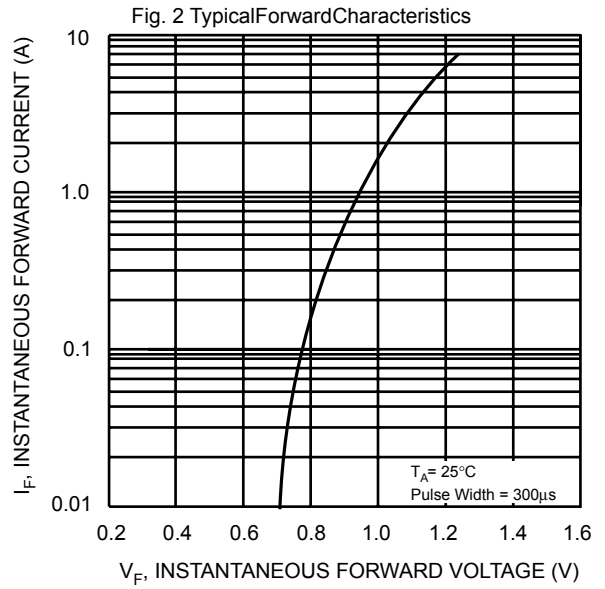
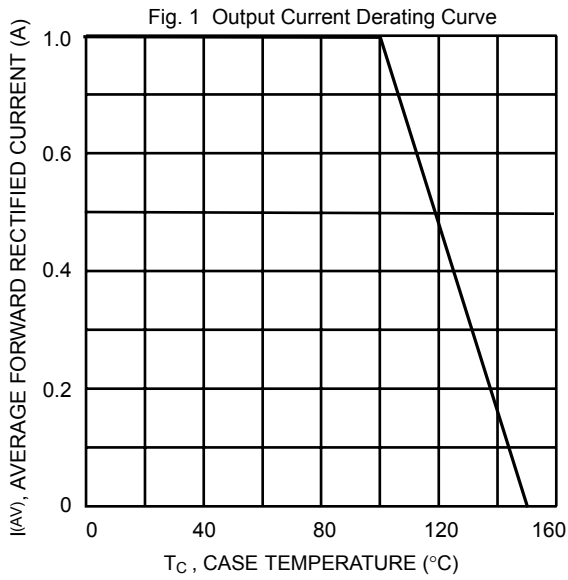
Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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