

# MB05S~MB10S

## BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volt **CURRENT** 0.5 Ampere

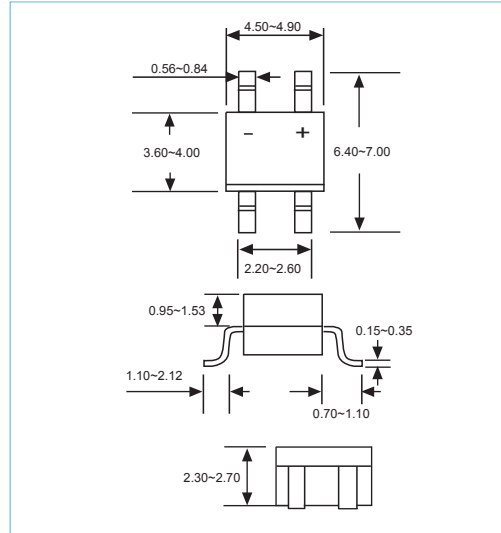
**MBS** Unit:mm

### FEATURES

- Glass Passivated Diode Construction
- Saves space on printed circuit boards
- Low reverse leakage
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



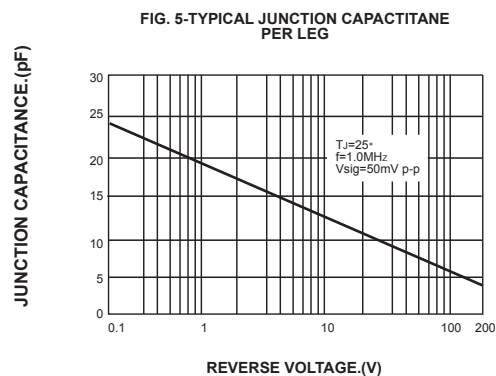
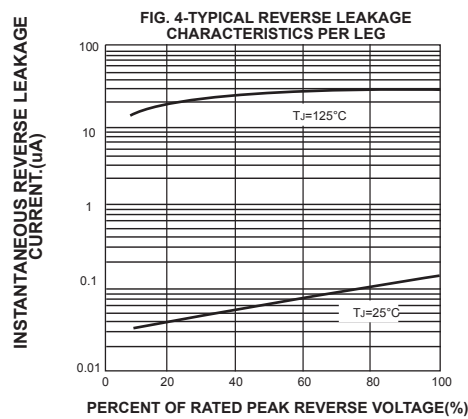
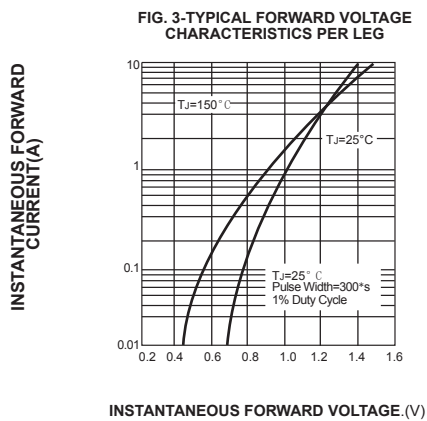
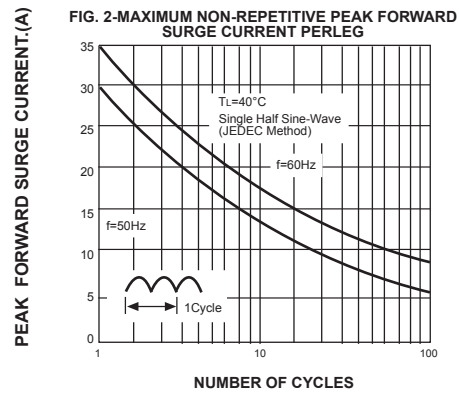
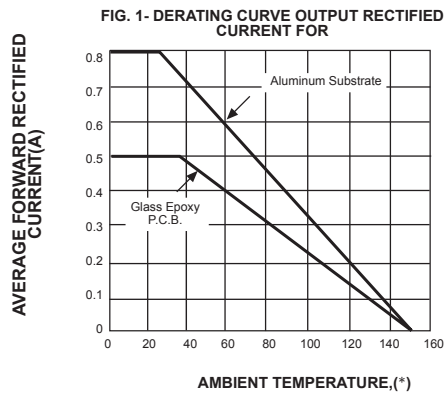
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| PARAMETER   | SYMBOL          | MB05S | MB1S | MB2S | MB4S | MB6S        | MB8S | MB10S | UNITS           |
|---|-----------------|-------|------|------|------|-------------|------|-------|-----------------|
| 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               |
| Maximum Average Forward Current (see FIG.1)   | $I_{F(AV)}$     |       |      |      |      | 0.5         |      |       | A               |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | $I_{FSM}$       |       |      |      |      | 0.8         |      |       | A               |
| Maximum Forward Voltage at 0.4 A  | $V_F$           |       |      |      |      | 35          |      |       | V               |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                             | $I_R$           |       |      |      |      | 5           |      |       | $\mu A$         |
|   |                 |       |      |      |      | 100         |      |       |                 |
| Thermal Resistance  | $R_{\theta JA}$ |       |      |      |      | 85          |      |       | $^{\circ}C / W$ |
| Operating Junction Temperature Range  | $T_J$           |       |      |      |      | -55 to +150 |      |       | $^{\circ}C$     |
| Storage Temperature Range   | $T_{STG}$       |       |      |      |      | -55 to +150 |      |       | $^{\circ}C$     |

# MB05S~MB10S

## RATING AND CHARACTERISTIC CURVES



## MB05S~MB10S

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### ORDER INFORMATION

- Packing information

| Part Number | Case | DELIVERY MODE | QUANTITY  |
|-------------|------|---------------|-----------|
| MB05S~MB10S | MBS  | 13 Inch       | 3000/Reel |