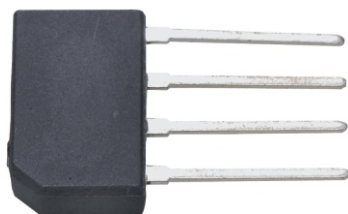


# GBL005 thru GBL10

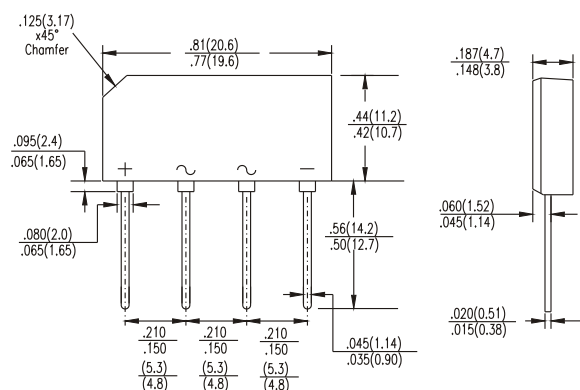
## SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS



### FEATURES

- Surge overload rating-150 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability classification 94V-O
- Mounting Position: Any

REVERSE VOLTAGE -50 to 1000 Volts  
FORWARD CURRENT -4.0 Amperes



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz.

For capacitive load, derate current by 20%.

|   | GBL005      | GBL01 | GBL02 | GBL04 | GBL06 | GBL08 | GBL10 | UNITS         |
|---|-------------|-------|-------|-------|-------|-------|-------|---------------|
| Maximum Recurrent Peak Reverse Voltage  | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V             |
| Maximum RMS Bridge Input Voltage  | 35          | 70    | 140   | 280   | 420   | 560   | 700   | V             |
| Maximum DC Blocking Voltage   | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V             |
| Maximum Average Forward Output Current @ $T_A=50^{\circ}\text{C}$ (Note 1)                | 4.0         |       |       |       |       |       |       | A             |
| Peak Forward Surge Current<br>8.3 ms single half sine-wave<br>super imposed on rated load | 150         |       |       |       |       |       |       | A             |
| Maximum DC Forward Voltage<br>drop per element at 4.0A Peak                               | 1.0         |       |       |       |       |       |       | V             |
| Maximum DC Reverse Current at Rate<br>DC Blocking Voltage                                 | 10.0        |       |       |       |       |       |       | $\mu\text{A}$ |
| Maximum DC Reverse Current at Rated<br>DC Blocking Voltage and 150° TA                    | 1.0         |       |       |       |       |       |       | mA            |
| Operating and Storage Temperature Range TA  | -55 to +150 |       |       |       |       |       |       | °C            |

NOTE: 1. Mounting conditions, 0.5" lead length maximum.

# GBL005 thru GBL10

## SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS



### RATING AND CHARACTERISTICS CURVES GBL005 THRU GBL10

Fig.1 - MAXIMUM NON-REPETITIVE  
SURGE CURRENT

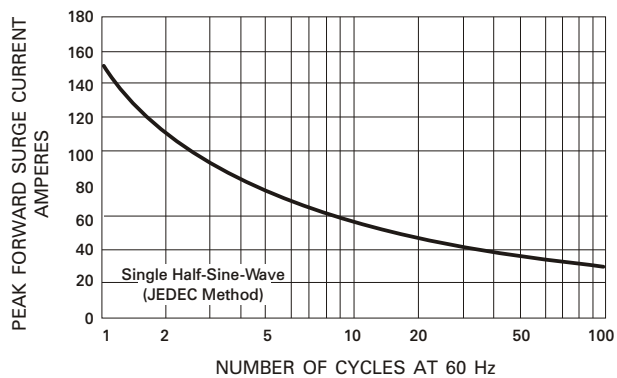


Fig.2 - FORWARD DERATING CURRENT

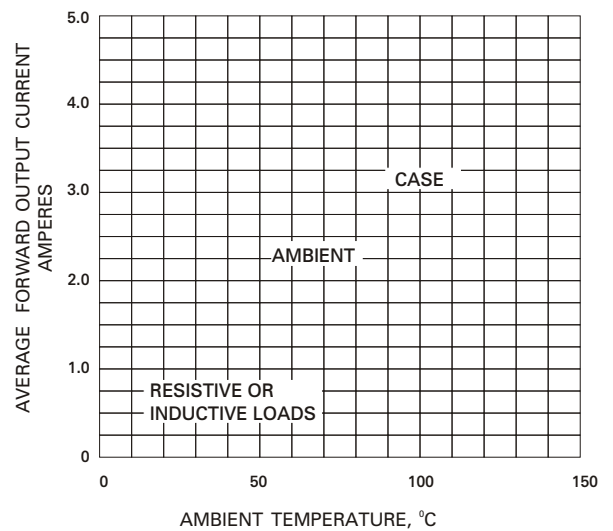


Fig.3 - TYPICAL FORWARD  
CHARACTERISTICS

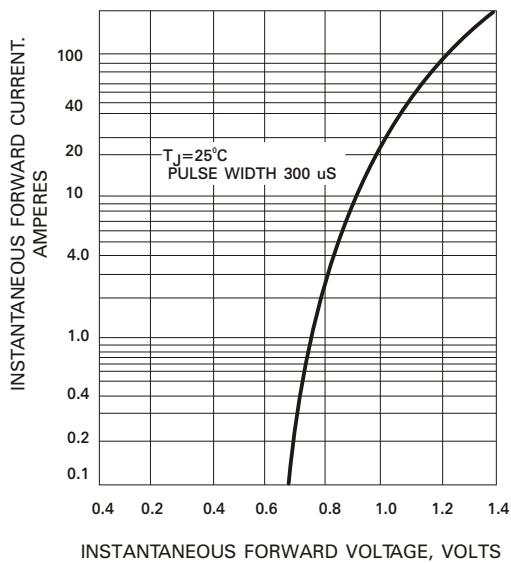


Fig.4 - TYPICAL REVERSE  
CHARACTERISTICS

