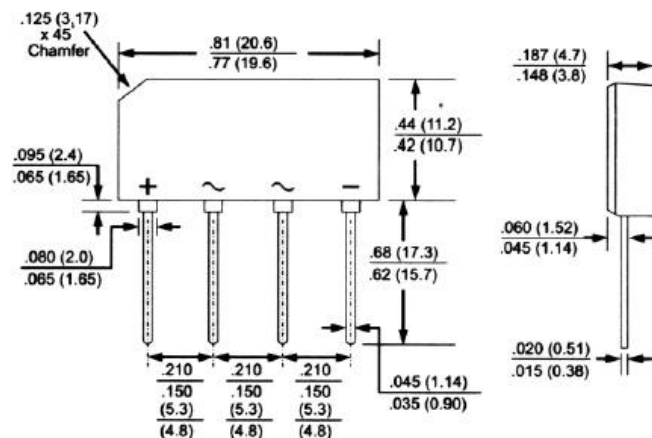
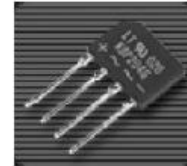


## Features

- ◆ Surge overload rating - 150 Amperes peak
- ◆ Ideal for printed circuit boards
- ◆ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Mounting Position: Any



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%

| Parameter   | Symbols        | GBL005      | GBL01 | GBL02 | GBL04 | GBL06 | GBL08 | GBL10 | Units            |
|---|----------------|-------------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum recurrent peak reverse voltage  | $V_{RRM}$      | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | Volts            |
| Maximum RMS voltage   | $V_{RMS}$      | 35          | 70    | 140   | 280   | 420   | 560   | 700   | Volts            |
| Maximum DC blocking voltage   | $V_{DC}$       | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | Volts            |
| Maximum average forward rectified output current at $T_A=50^\circ\text{C}$ (Note 1)               | $I_{F(AV)}$    | 4.0         |       |       |       |       |       |       | Amps             |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$      | 150.0       |       |       |       |       |       |       | Amps             |
| Max. instantaneous forward voltage drop per element at 4.0A                                       | $V_F$          | 1.0         |       |       |       |       |       |       | Volts            |
| Maximum DC reverse current at rated DC blocking voltage per element $T_A=25^\circ\text{C}$        | $I_R$          | 10.0        |       |       |       |       |       |       | $\mu\text{A}$    |
| $T_A=150^\circ\text{C}$   |                | 1.0         |       |       |       |       |       |       | mA               |
| Operating and storage temperature range   | $T_J, T_{STG}$ | -55 to +150 |       |       |       |       |       |       | $^\circ\text{C}$ |

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

# GBL005 thru GBL10

## RATINGS AND CHARACTERISTIC CURVES

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

FIG. 1 - MAXIMUM NON-REPETITIVE SURGE CURRENT

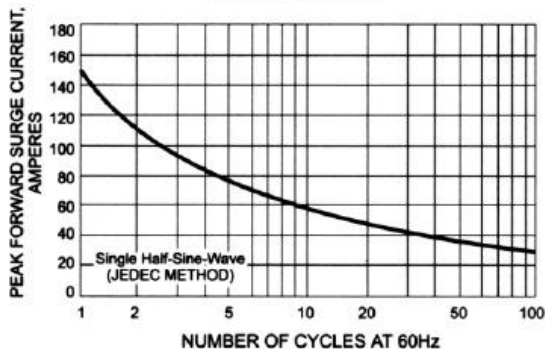


FIG. 2 - FORWARD DERATING CURRENT

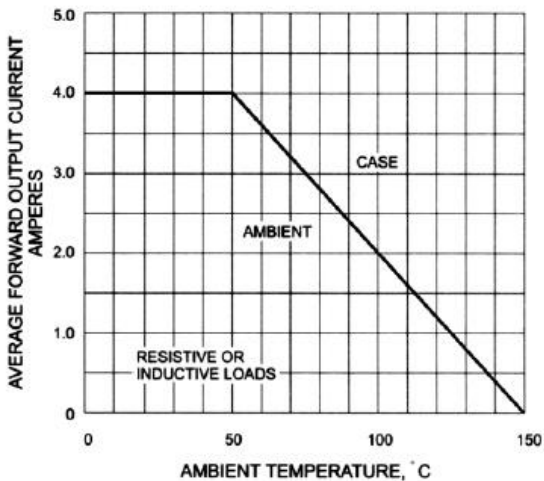


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

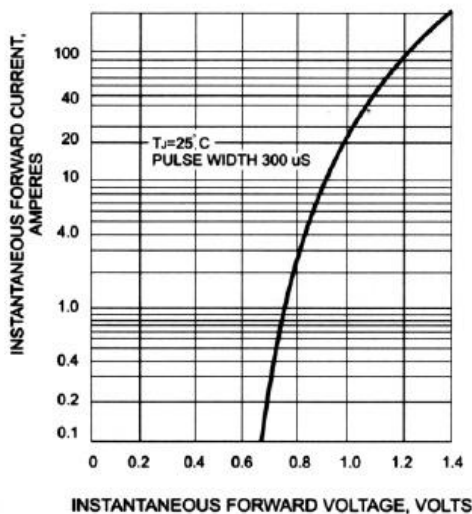


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

