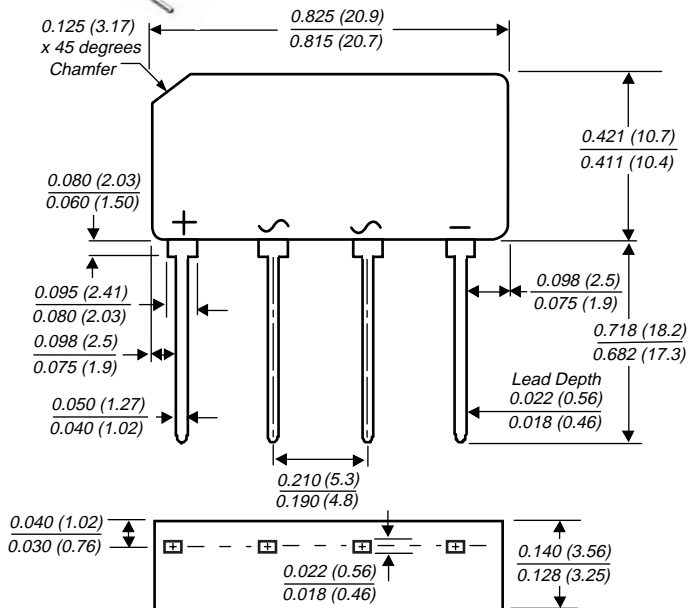




## Glass Passivated Single-Phase Bridge Rectifiers

## Case Type GBL

**Reverse Voltage** 50 and 1000V  
**Forward Current** 4.0A



*Polarity shown on front side of case, positive lead beveled corner.*

*Dimensions in inches and (millimeters)*

## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized Component Index, file number E54214
- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs. (2.3kg) tension

## Mechanical Data

**Case:** Molded plastic body over passivated junctions

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Mounting Position:** Any

**Weight:** 0.071 oz., 2.0 g

**Packaging codes/options:**

1/400 ea. per Bulk Tray Stack

## Maximum Ratings & Thermal Characteristics

<sup>b</sup> Ratings at 25°C ambient temperature unless otherwise specified.

[illegible]

## Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

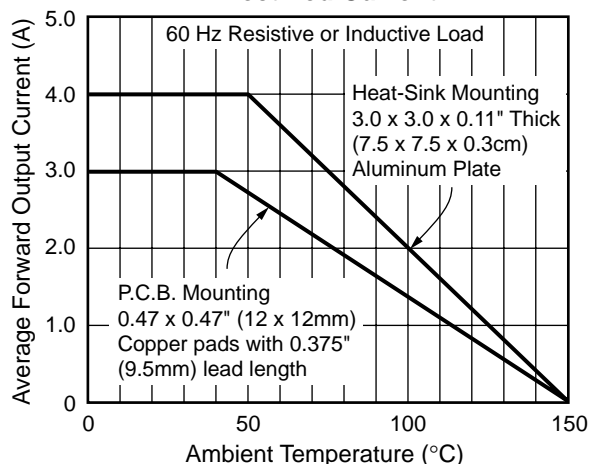
Parameter	Symbol	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08	GBLA 10	Unit	
Maximum instantaneous forward drop per leg at 4.0A	V <sub>F</sub>	1.0								V
Maximum DC reverse current at T <sub>A</sub> = 25°C rated DC blocking voltage per leg T <sub>A</sub> = 125°C	I <sub>R</sub>	5.0 500								μA

**Notes:** (1) Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) Aluminum plate

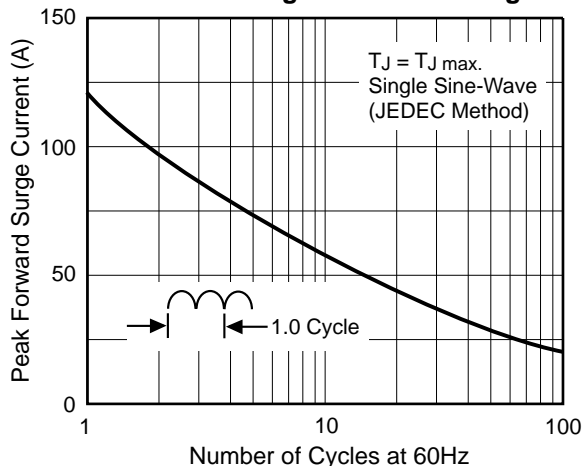
(2) Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads

## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

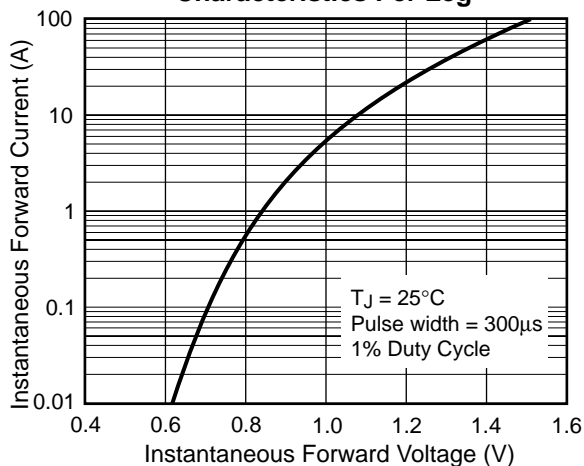
**Fig. 1 – Derating Curves Output Rectified Current**



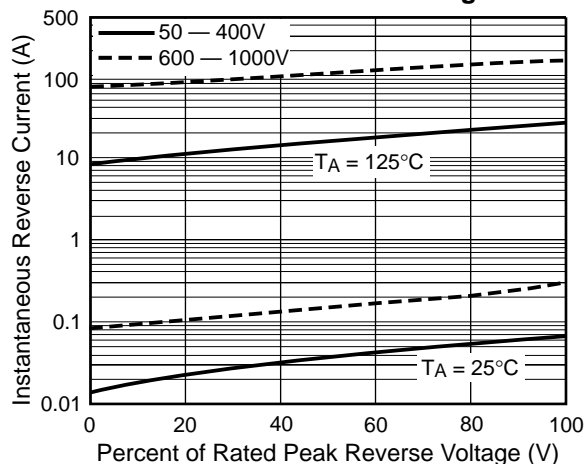
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



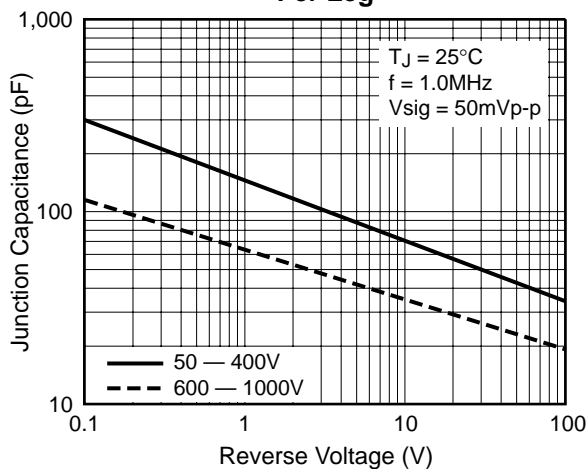
**Fig. 3 – Typical Forward Voltage Characteristics Per Leg**



**Fig. 4 – Typical Reverse Leakage Characteristics Per Leg**



**Fig. 5 – Typical Junction Capacitance Per Leg**



**Fig. 6 – Typical Transient Thermal Impedance Per Leg**

