







### **Features**

- ♦ UL Recognized File # E-326243
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ High case dielectric strength
- Plastic material ha Underwriters Laboratory Flammability Classification 94V-0
- → Typical IR less than 0.1uA
- ♦ High surge current capability
- ♦ High temperature soldering guaranteed: 260°C/ 10 seconds at 5lbs., (2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode

# **Mechanical Data**

- ♦ Case: Molded plastic body
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ♦ Weight: 2.0 grams
- ♦ Mounting position: Any

# $\begin{array}{c} \begin{array}{c} .146(3.70) \\ .799(20.3) \\ .776(19.7) \\ \end{array} \\ \begin{array}{c} .445(11.3) \\ .421(10.7) \\ \end{array} \\ \begin{array}{c} .067(1.70) \\ .051(1.30) \\ .035(0.90) \\ \end{array} \\ \begin{array}{c} .047(1.20) \\ .031(2.30) \\ \end{array} \\ \begin{array}{c} .06(2.70) \\ .091(2.30) \\ .512(13.0) \\ \end{array} \\ \begin{array}{c} .047(1.20) \\ .031(0.80) \\ \end{array}$

Single Phase 4.0AMPS. Glass Passivated Bridge Rectifiers

**GBL** 

# **Dimensions in inches and (millimeters)**

# GBLXX S GYWW

205(5.20) .205(5.20) .205(5.20) .189(4.80) .189(4.80)

## **Marking Diagram**

GBLXX = Specific Device Code G = Green Compound

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Y = Year WW = Work Week

# **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

| Type Number   | Symbol  | GBL<br>005    | GBL<br>01 | GBL<br>02 | GBL<br>04  | GBL<br>06 | GBL<br>08 | GBL<br>10 | Unit             |
|---|---|---------------|-----------|-----------|------------|-----------|-----------|-----------|------------------|
| Maximum Repetitive 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 Rectified Current $ @T_{\rm C} = 50 ^{\circ}{\rm C} $ $ @T_{\rm A} = 40 ^{\circ}{\rm C} $ | I <sub>F(AV)</sub>  |               |           |           | 4.0<br>3.0 |           |           |           | Α                |
| Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)                 | 1-0   |               |           |           | 150        |           |           |           | Α                |
| Rating for fusing (t<8.3ms)   | I <sup>2</sup> T  |               |           |           | 93         |           |           |           | A <sup>2</sup> S |
| Maximum Instantaneous Forward Voltage (Note 1)<br>@2.0A<br>@4.0A  | V <sub>F</sub>  |               |           |           | 1.0<br>1.1 |           |           |           | V                |
| $\begin{tabular}{lllllllllllllllllllllllllllllllllll$   | I <sub>R</sub>  | 5<br>500      |           |           |            |           |           | uA        |                  |
| Typical Junction Capabitance  | Cj  | 95 40         |           |           |            |           | pF        |           |                  |
| Typical Thermal Resistance  | $egin{array}{c} R_{	heta jA} \ R_{	heta jL} \ R_{	heta jC} \end{array}$ | 32<br>13<br>8 |           |           |            |           |           | °C/W      |                  |
| Operating Temperature Range   | TJ  | - 55 to + 150 |           |           |            |           |           | οС        |                  |
| Storage Temperature Range   | T <sub>STG</sub>  | - 55 to + 150 |           |           |            |           |           | оС        |                  |

Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle



# RATINGS AND CHARACTERISTIC CURVES (GBL005 THRU GBL10)











