







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 005 | GBL 01 | GBL 02 | GBL 04 | GBL 06 | GBL 08 | GBL 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 _{F(AV)} | | | | 4.0 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 ² T | | | | 93 | | | | A ² S |
| Maximum Instantaneous Forward Voltage (Note 1) @2.0A @4.0A | V _F | | | | 1.0 1.1 | | | | V |
| $\begin{tabular}{lllllllllllllllllllllllllllllllllll$ | I _R | 5 500 | | | | | | 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 13 8 | | | | | | °C/W | |
| Operating Temperature Range | TJ | - 55 to + 150 | | | | | | οС | |
| Storage Temperature Range | T _{STG} | - 55 to + 150 | | | | | | оС | |

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



RATINGS AND CHARACTERISTIC CURVES (GBL005 THRU GBL10)











