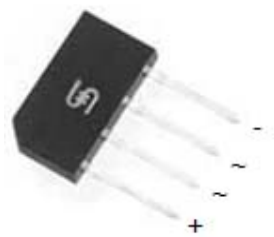


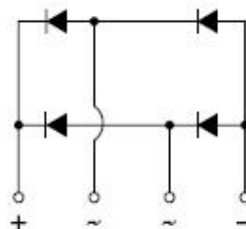
## Glass Passivated Single Phase Bridge Rectifiers

### FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical IR less than 0.1μA
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



GBL



### MECHANICAL DATA

**Case:** GBL

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

**Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

**Polarity:** As marked

**Weight:** 2 g (approximately)

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted) |                  |            |           |           |           |           |           |           |      |
|----------------------------------------------------------------------------------------------|------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------|
| PARAMETER                                                                                    | 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 <sub>RRM</sub> | 50         | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum RMS voltage                                                                          | V <sub>RMS</sub> | 35         | 70        | 140       | 280       | 420       | 560       | 700       | V    |
| Maximum DC blocking voltage                                                                  | V <sub>DC</sub>  | 50         | 100       | 200       | 400       | 600       | 800       | 1000      | V    |
| Maximum average forward rectified current<br>                                                |                  |            |           |           |           |           |           |           |      |

Note 1: Pulse test with PW=300μs, 1% duty cycle

**ORDERING INFORMATION**

| PART NO.          | PACKING CODE | GREEN COMPOUND CODE | PACKAGE | PACKING             |
|-------------------|--------------|---------------------|---------|---------------------|
| GBLxx<br>(Note 1) | C2           | Suffix "G"          | GBL     | 25 / Tube           |
|                   | X0           |                     | GBL     | 25 / Tube / Forming |
|                   | D2           |                     | GBL     | 25 / Tube           |

Note 1: "xx" defines voltage from 50V (GBL005) to 1000V (GBL10)

**EXAMPLE**

| PREFERRED P/N | PART NO. | PACKING CODE | GREEN COMPOUND CODE | DESCRIPTION    |
|---------------|----------|--------------|---------------------|----------------|
| GBL10 C2      | GBL10    | C2           |                     |                |
| GBL10 C2G     | GBL10    | C2           | G                   | Green compound |

**RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

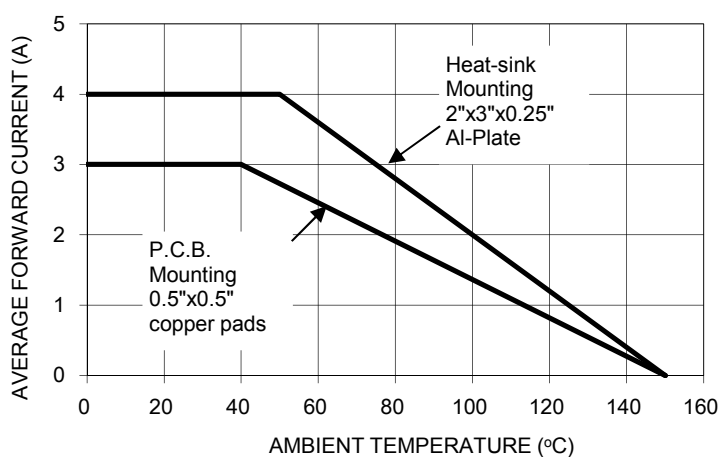


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

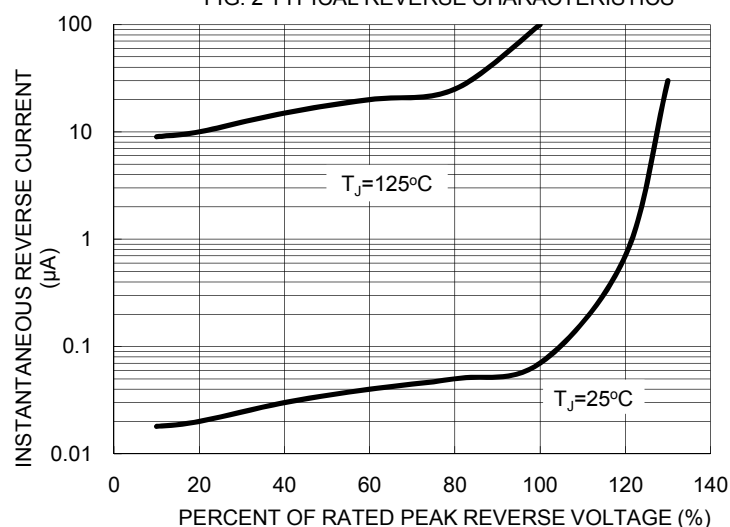


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

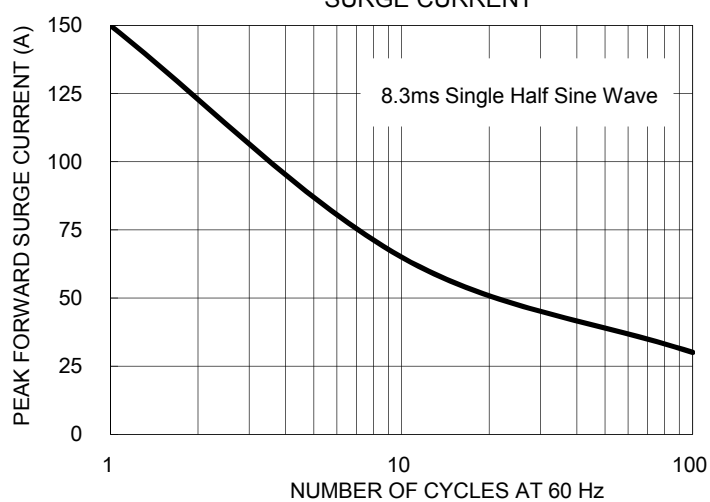


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

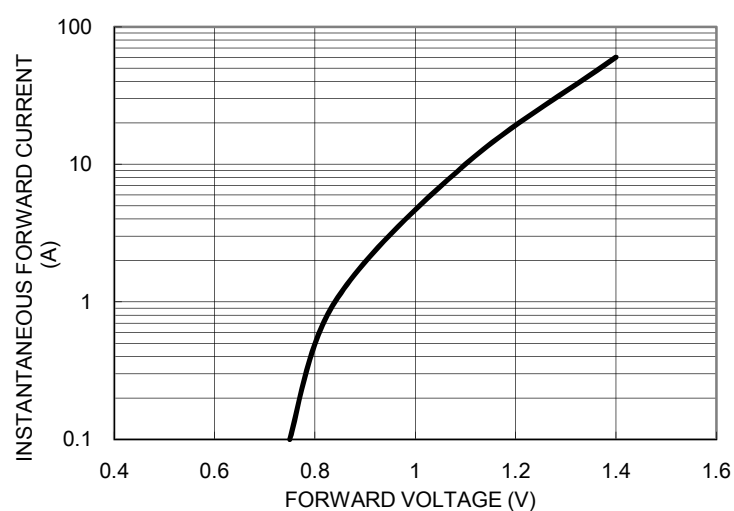
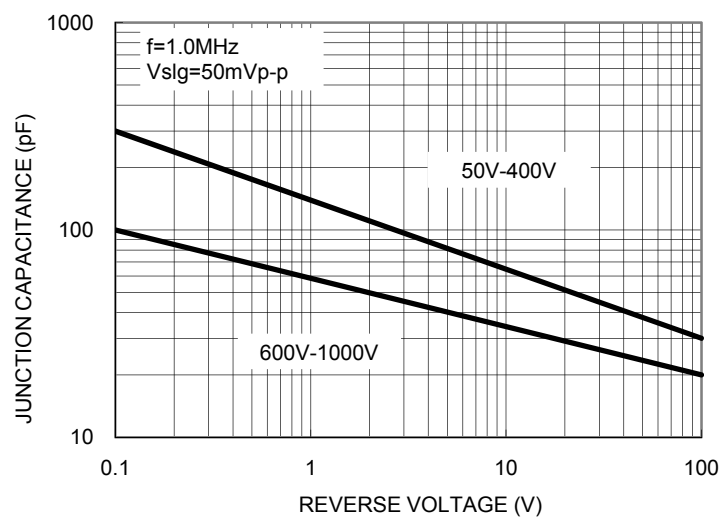
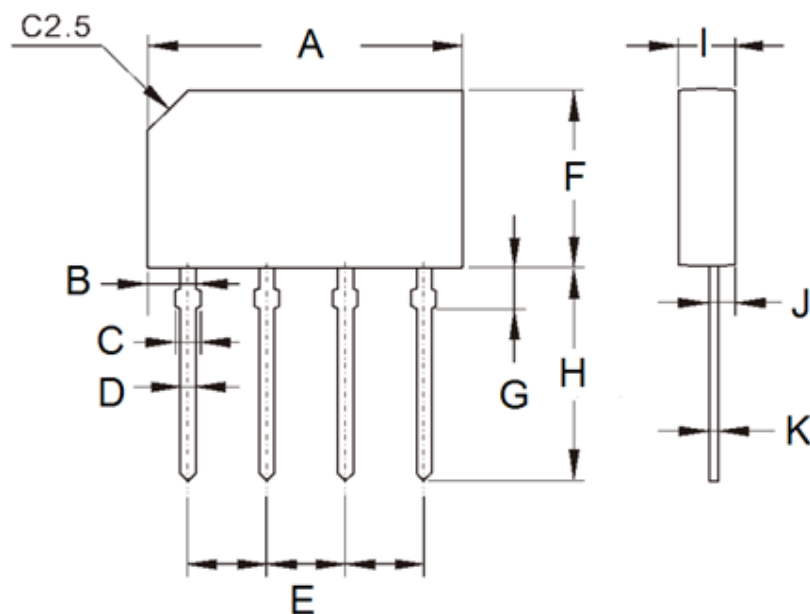


FIG. 5 TYPICAL JUNCTION CAPACITANCE



## PACKAGE OUTLINE DIMENSIONS

### GBL



| DIM. | Unit (mm) |       | Unit (inch) |       |
|------|-----------|-------|-------------|-------|
|      | Min       | Max   | Min         | Max   |
| A    | 19.70     | 20.30 | 0.776       | 0.799 |
| B    | 2.30      | 2.70  | 0.091       | 0.106 |
| C    | 1.30      | 2.00  | 0.051       | 0.079 |
| D    | 0.90      | 1.10  | 0.035       | 0.043 |
| E    | 4.80      | 5.20  | 0.189       | 0.205 |
| F    | 10.70     | 11.30 | 0.421       | 0.445 |
| G    | 2.30      | 2.70  | 0.091       | 0.106 |
| H    | 13.00     | 14.00 | 0.512       | 0.551 |
| I    | 3.30      | 3.70  | 0.130       | 0.146 |
| J    | 0.80      | 1.20  | 0.031       | 0.047 |
| K    | 0.40      | 0.60  | 0.016       | 0.024 |

## MARKING DIAGRAM



P/N = Specific Device Code  
G = Green Compound  
YWW = Date Code  
F = Factory Code

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