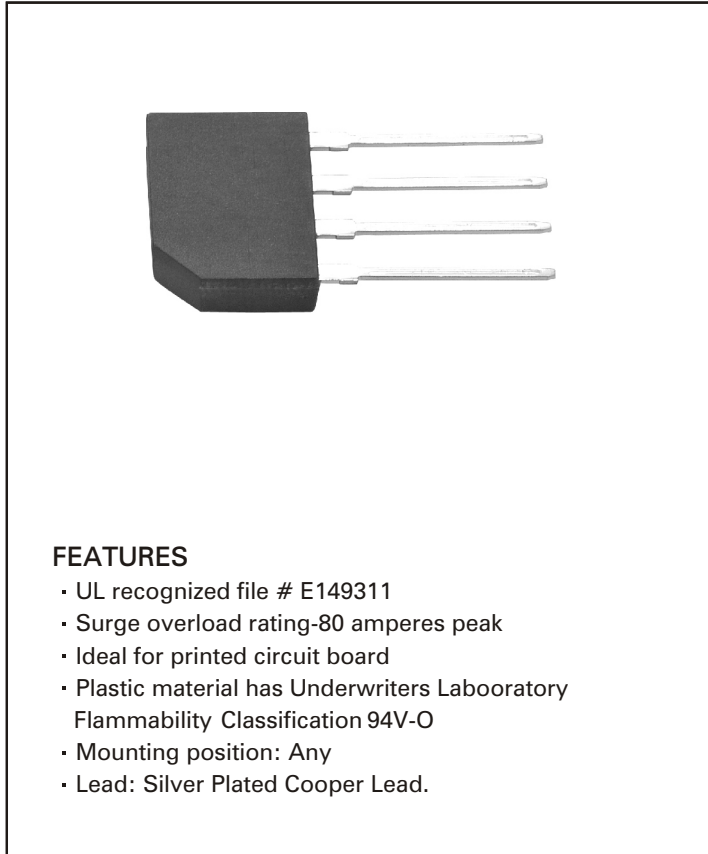


# GBP3005 thru GBP310

## SINGLE-PHASE SILICON BRIDGE

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- UL recognized file # E149311
- Surge overload rating-80 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Mounting position: Any
- Lead: Silver Plated Cooper Lead.

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Technical drawing of a 3.0 Ampere fuse assembly. The drawing shows a top view of the fuse body with four leads. Dimensions are provided in inches and millimeters.

**Dimensions:**

- Top width:  $14.7 \pm 0.3$
- Top right width:  $3.8 \pm 0.3$
- Top left corner:  $.110 \times 45^\circ$  (2.8)
- Top right corner:  $.417$  (10.60) and  $.410$  (10.20)
- Top right corner:  $.060$  (1.52) and  $.045$  (1.14)
- Top right corner:  $0.9$  (2.29)
- Top right corner:  $.581$  (14.73) and  $.561$  (14.25)
- Top right corner:  $.025$  (.641) and  $.012$  (.300)
- Top right corner:  $.056$  (1.42) and  $.046$  (1.17)
- Top right corner:  $.034$  (8.6) and  $.030$  (7.6)
- Bottom width:  $.160$  (4.06) and  $.140$  (3.56)



Ratings at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load, 60 Hz.  
For capacitive load, derate current by 20%.

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|                                                                                                                 |            | GBP3005     | GBP301 | GBP302 | GBP304 | GBP306 | GBP308 | GBP310 | UNITS         |
|-----------------------------------------------------------------------------------------------------------------|------------|-------------|--------|--------|--------|--------|--------|--------|---------------|
| Maximum Recurrent Peak Reverse Voltage                                                                          | $V_{RRM}$  | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | V             |
| Maximum RMS Bridge Input Voltage                                                                                | $V_{RMS}$  | 35          | 70     | 140    | 280    | 420    | 560    | 700    | V             |
| Maximum DC Blocking Voltage                                                                                     | $V_{DC}$   | 60          | 100    | 200    | 400    | 600    | 800    | 1000   | V             |
| Maximum Average Forward Output Current @ $T_A=25^{\circ}C$                                                      | $V_{(AV)}$ | 3.0         |        |        |        |        |        |        | A             |
| Peak Forward Surge Current<br>8.3 ms single half sine-wave<br>superimposed on rated load                        | $I_{FSM}$  | 80          |        |        |        |        |        |        | A             |
| Maximum DC Forward Voltage<br>drop per element at 1.0A DC                                                       | $V_F$      | 1.1         |        |        |        |        |        |        | V             |
| Maximum DC Reverse Current at rated @ $T_A=25^{\circ}C$<br>DC Blocking Voltage Per Element @ $T_A=100^{\circ}C$ | $I_R$      | 10<br>1     |        |        |        |        |        |        | $\mu A$<br>mA |
| $I^2t$ Rating for fusing( $t<8.3ms$ )                                                                           | $I^2t$     | 10          |        |        |        |        |        |        | $A^2S$        |
| Operating Temperature Range                                                                                     | $T_J$      | -55 to +125 |        |        |        |        |        |        | $^{\circ}C$   |
| Storage Temperature Range                                                                                       | $T_{STG}$  | -55 to +150 |        |        |        |        |        |        | $^{\circ}C$   |

# GBP3005 thru GBP310

## SINGLE-PHASE SILICON BRIDGE



**CHENG-YI  
ELECTRONIC**

### RATING AND CHARACTERISTICS CURVES GBP3005 THRU GBP310

Fig.1 - DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

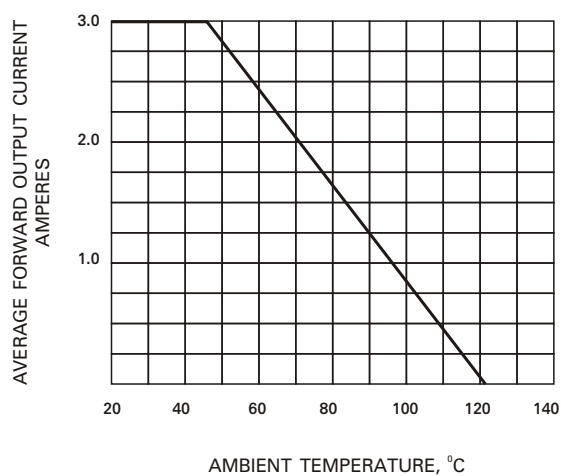


Fig.2 - DERATING CURVE FOR  
OUTPUT RECTIFIED CURRENT

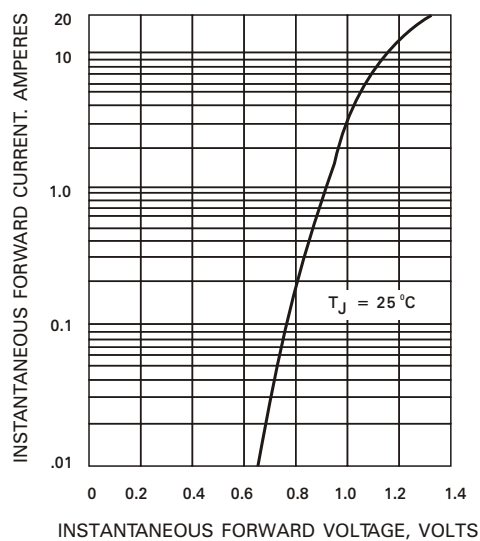


Fig.3 - TYPICAL FORWARD  
CHARACTERISTICS

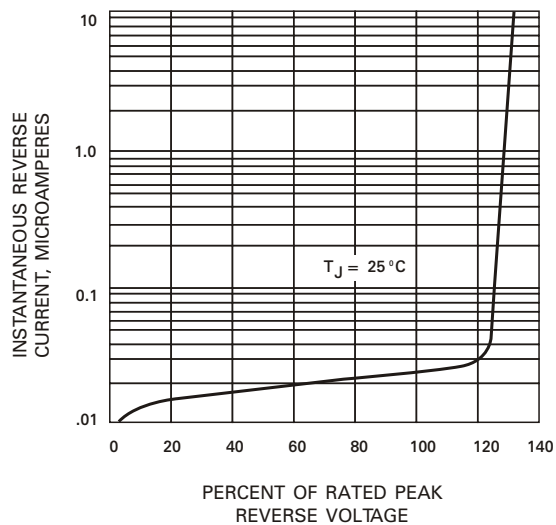


FIG.4 - MAXIMUM FORWARD SURGE CURRENT

