



# **GBP3005S thru GB310S**

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## Features

- Ideal for printed circuit board mounting
  - This series is UL listed under the Recognized Component Index, file number E484648
  - The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
  - Built-in printed circuit board stand-offs
  - High case dielectric strength
  - High temperature soldering guaranteed 260°C /5 seconds at 5 lbs (2.3kg) tension

## Mechanical Data

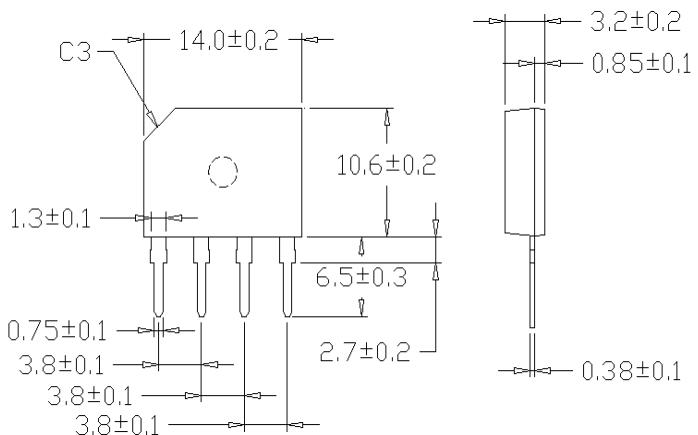
Case: Reliable low cost construction utilizing molded plastic technique

Molded plastic technique  
Terminals: Plated leads solderable per MIL-STD-202,  
Method 208

## Method 200

### Mounting Position: Any

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Weight: 1.35 grams (approx)



Dimensions in inches and (millimeters)

## Maximum Ratings & Thermal Characteristics

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Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
For Capacitive load derate current by 20%.

### **Electrical Characteristics**

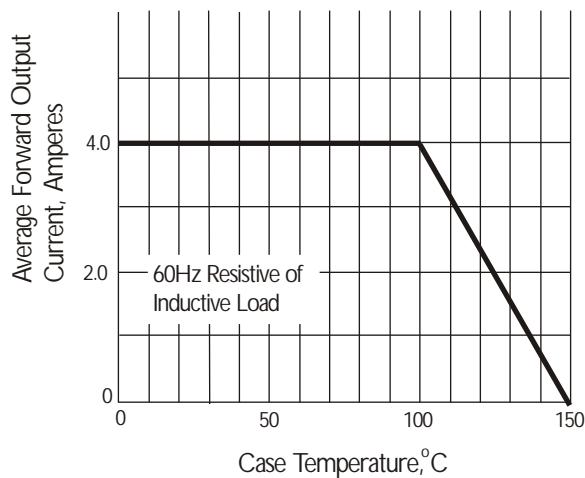
Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
For Capacitive load derate by 20 %

Parameter	Symbol	GBP 3005S	GBP 301S	GBP 302S	GBP 304S	GBP 306S	GBP 308S	GBP 310S	Unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF				1.1				V
Maximum DC reverse current at rated TA = $25^{\circ}\text{C}$ DC blocking voltage per element TA = $125^{\circ}\text{C}$	IR				10 1000				$\mu\text{A}$

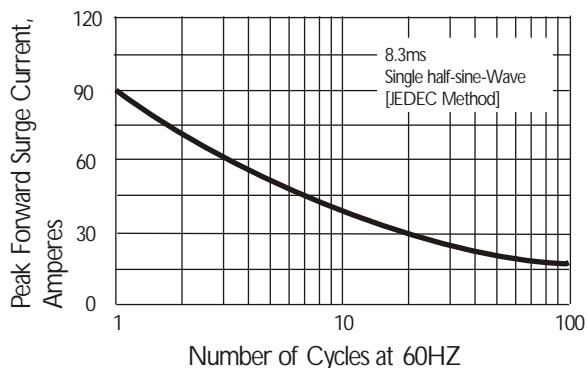
**Notes:** (1) Thermal resistance from Junction to Ambient on P.C.board mounting.

**Rating and Characteristic Curves** (  $T_A = 25^\circ\text{C}$  Unless otherwise noted )  
**GBP3005S thru GBP310S**

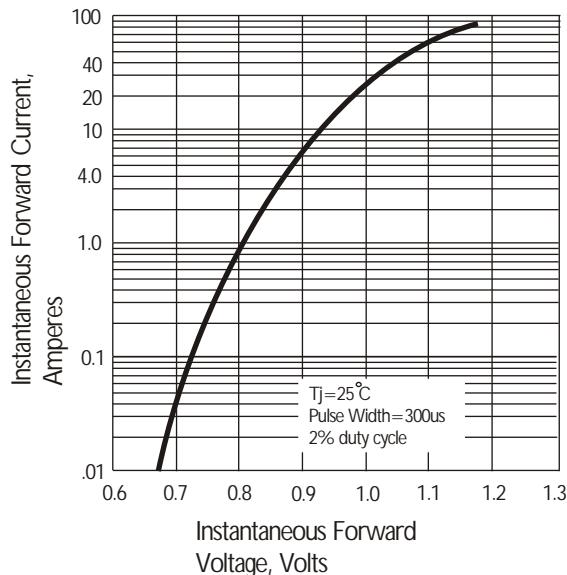
**Fig. 1 Derating Curve for Output Rectified Current**



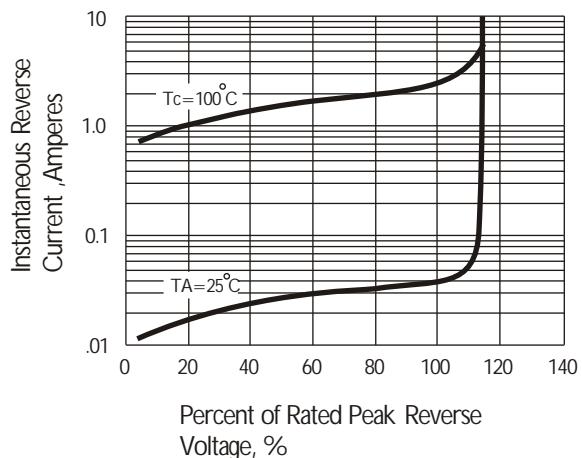
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Reverse Characteristics**



**Fig. 5 Typical Junction Capacitance**

