



GBP3005 thru GBP310

3.0 A Single-Phase Silicon Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V

Features

- Ideal for printed circuit board mounting
 - This series is UL listed under the Recognized Component Index, file number E142814
 - 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

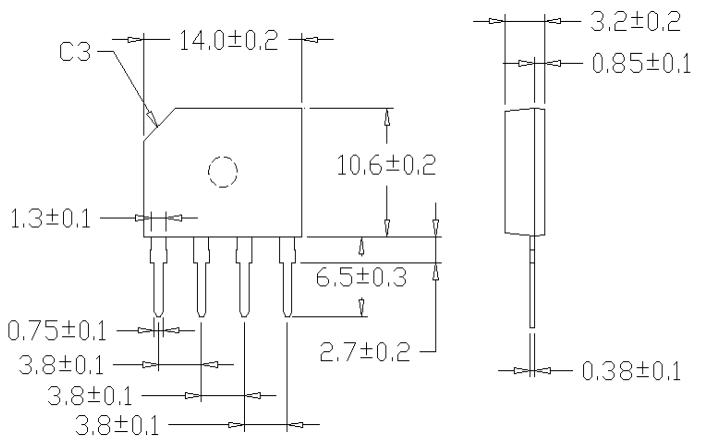
Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique

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

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

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Parameter	Symbol	GBP 3005	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310	Unit
Maximum instantaneous forward voltage drop per leg at 3.0A	VF				1.1				V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR				10 1000				µA

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)
GBP3005 thru GBP310

Fig. 1 Derating Curve for Output Rectified Current

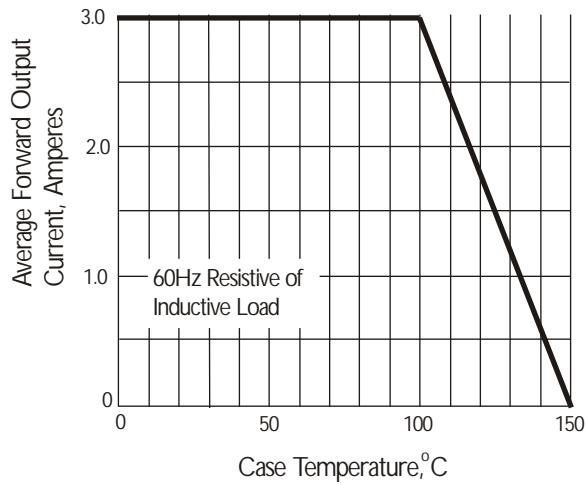


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

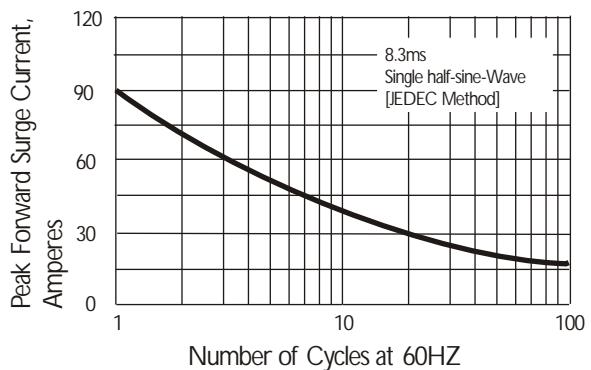


Fig. 3 Typical Instantaneous Forward Characteristics

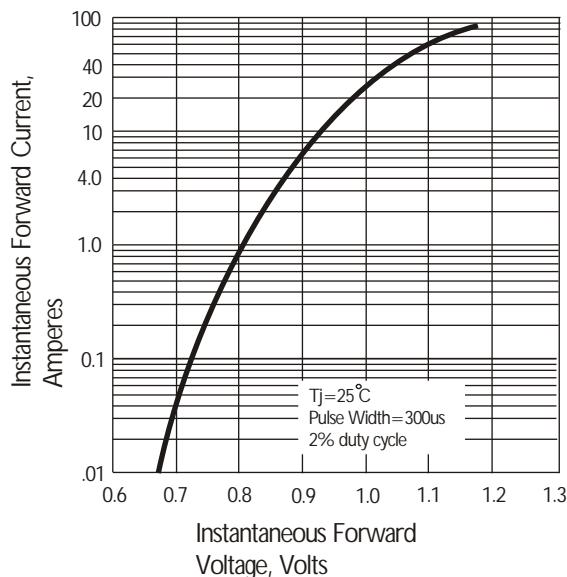


Fig. 4 Typical Reverse Characteristics

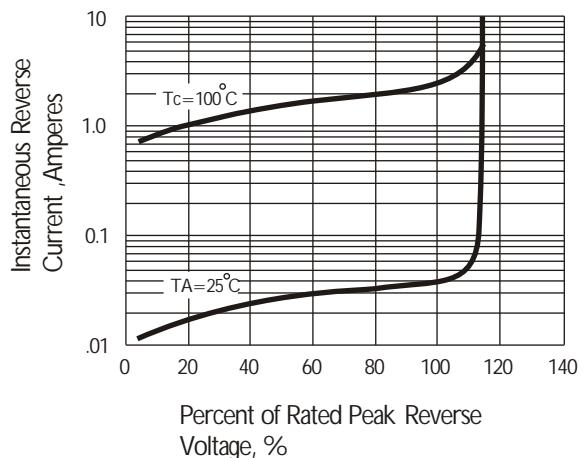
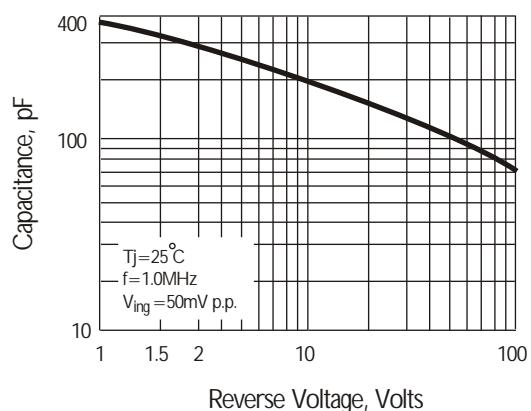


Fig. 5 Typical Junction Capacitance



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