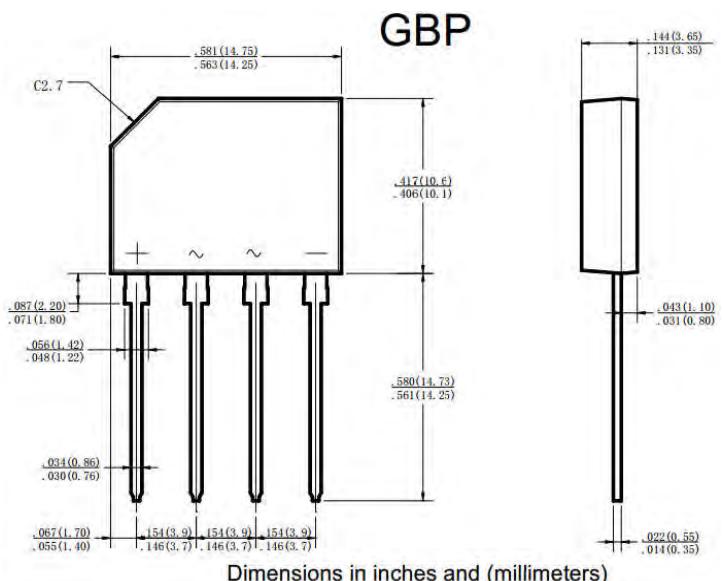




**Glass Passivated Single-Phase Bridge Rectifier  
Reverse Voltage 200 and 1000V Forward Current 3.0A**

**Features**

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High surge current capability
- ◆ Ideal for printed circuit boards
- ◆ Glass passivated chip junction



**Mechanical Data**

Case: Molded plastic body over passivated junctions

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

High temperature soldering guaranteed:

260°C/20 seconds

Mounting Position: Any

Absolute Maximum Ratings TL= 25°C unless otherwise specified.

Parameter	Symbol	GBP302	GBP304	GBP306	GBP308	GBP310	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	1000	V
Maximum average forward output Ta=55°C	I <sub>F(AV)</sub>			3.0			A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>			60			A
Rating for fusig (t<8.3ms)	I <sup>2</sup> t			14.94			A <sup>2</sup> sec
Typical junction capacitance per leg at 4.0V 1.0MHz	C <sub>J</sub>			25			pF
Operating junction temperature range	T <sub>J</sub>			- 55 to +150			°C
Storage temperature range	T <sub>STG</sub>			- 55 to +150			°C

Electrical Characteristics TL=25 °C unless otherwise specified.

Maximum instantaneous forward voltage drop per leg at 3.0A	V <sub>F</sub>	1.10	V
Maximum DC reverse current at Ta=25°C rated DC blocking voltage per leg Ta=125°C	I <sub>R</sub>	5 100	µA
Typical thermal resistance per leg (1)	R <sub>θJA</sub> R <sub>θJL</sub>	30 11	°C/W

Note

(1) Units mounted on PCB with 0.47x 0.47(12x 12mm) Copper Pads

## RATINGS AND CHARACTERISTIC CURVES

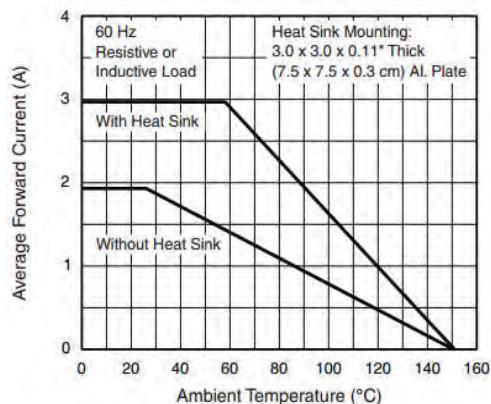


Fig. 1 - Forward Current Derating Curve

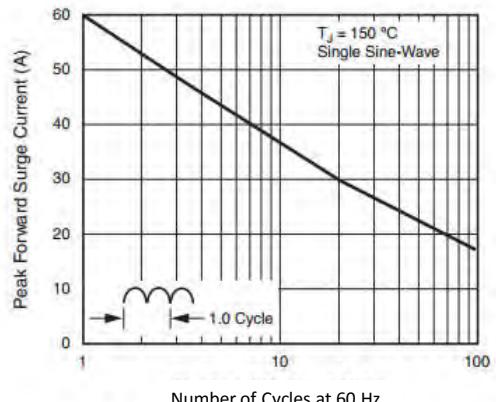


Fig. 2 - Derating Curve Output Rectified Current

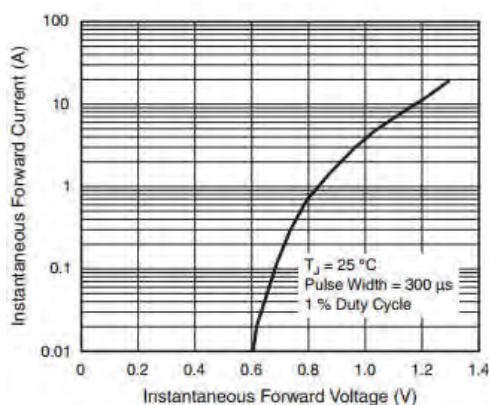


Fig. 3 - Typical Forward Characteristics Per Diode

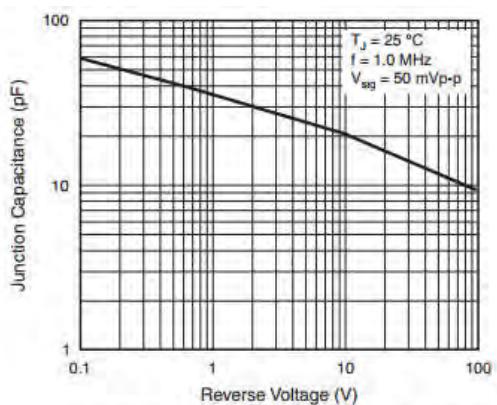


Fig. 5 - Typical Junction Capacitance Per Diode

