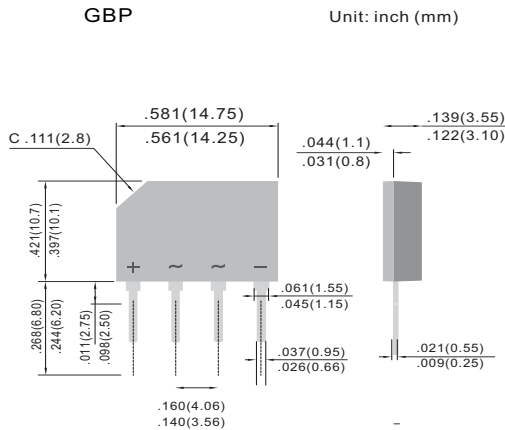


# GBP300~GBP310

**BRIDGE RECTIFIER**

**VOLTAGE 50 to 1000 Volts CURRENT 3.0 Amperes**



**FEATURES**

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 60 Amperes peak
- Both normal and Pb free product are available :  
Normal : 80~95% Sn, 5~20% Pb  
Pb free: 98.5% Sn above

**MECHANICAL DATA**

Terminals: Leads solderable per MIL-STD-202, Method 208  
Mounting position: Any

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

CHARACTERISTICS	SYMBOL	GBP 300	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	30	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 Output Current @ T <sub>A</sub> =50°C	I <sub>(AV)</sub>	3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	75							A
Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak	V <sub>F</sub>	1.1							V
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	23.34							A <sup>2</sup> s
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I <sub>R</sub>	10.0							uA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element T <sub>A</sub> =100°C	I <sub>R</sub>	1.0							mA
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

**NOTES:**

1. Measured at 1.0MHZ and applied reverse voltage of 4.0 volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.47 x 0.47"(12 x 12mm)copper pads.

# GBP300~GBP310

## RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

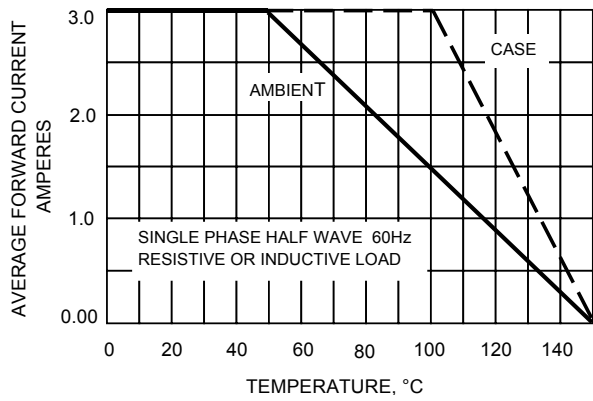


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

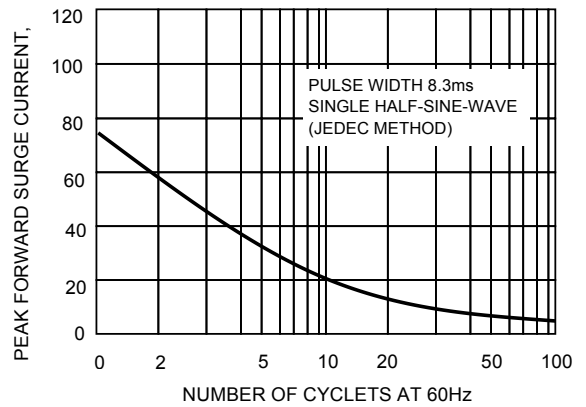


FIG.3-TYPICAL REVERSE CHARACTERISTICS

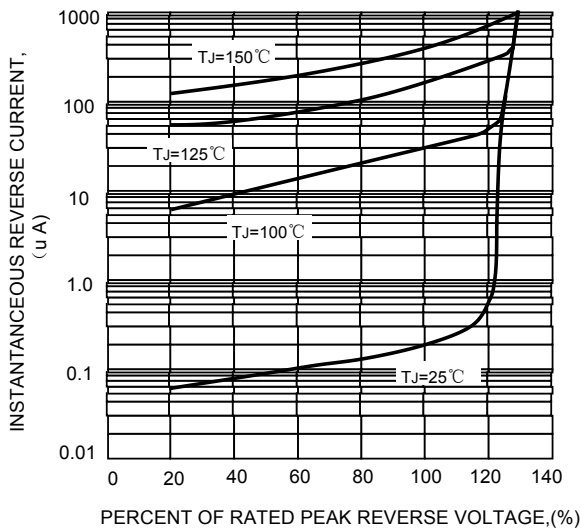


FIG.4-TYPICAL FORWARD CHARACTERISTICS

