

# GBP3005 thru GBP310

## GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 3.0Amperes

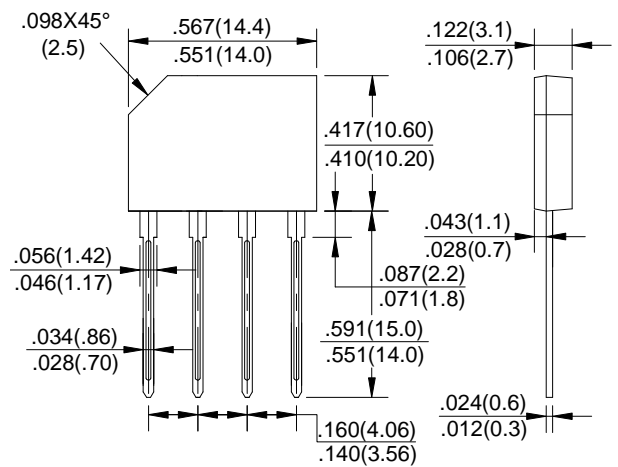
### FEATURES

- Surge overload rating - 60 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any
- Weight: 0.05 ounces , 1.42grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTIC S

- Rating at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave ,60Hz, resistive or inductive load.
- For capacitive load, derate current by 20%

### Package: GBP



Dimensions in millimeters

CHARACTERISTICS	SYMBOL	GBP 3005	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>	35	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=""></sub(av)<>	3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	60							A
Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak	V <sub>F</sub>	1.1							v
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

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## GLASS PASSIVATED BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

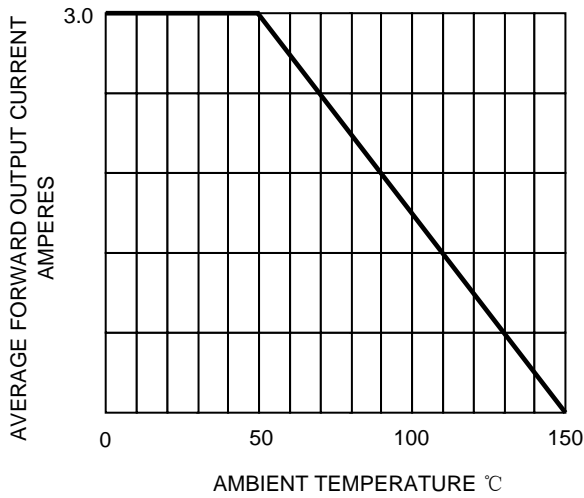


FIG.2-TYPICAL FORWARD CHARACTERISTICS

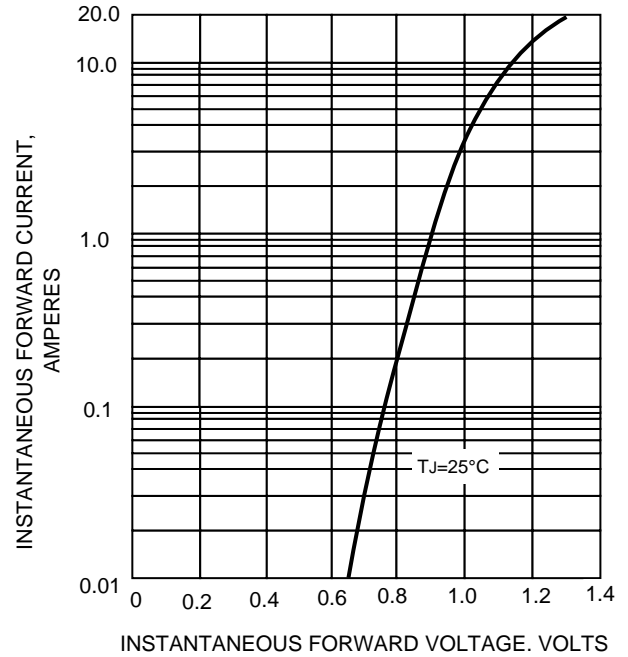


FIG.3-TYPICAL REVERSE CHARACTERISTICS

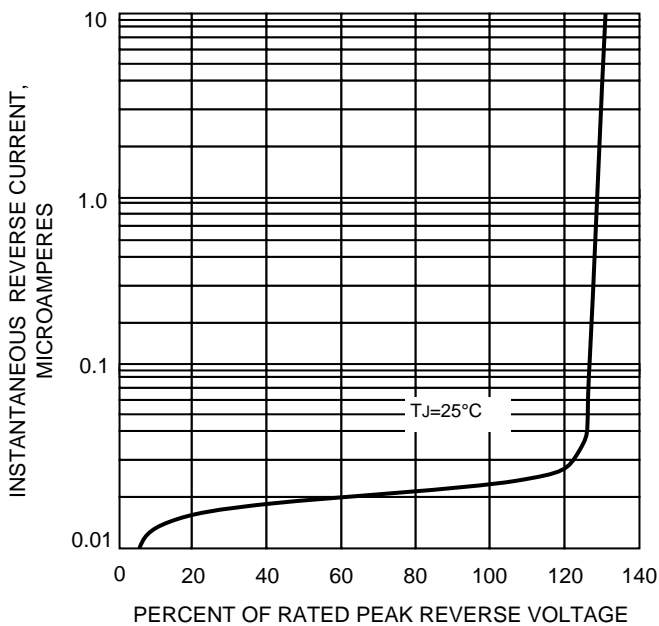


FIG.4-MAXIMUM FORWARD SURGE CURRENT

