

**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 1.5 A**

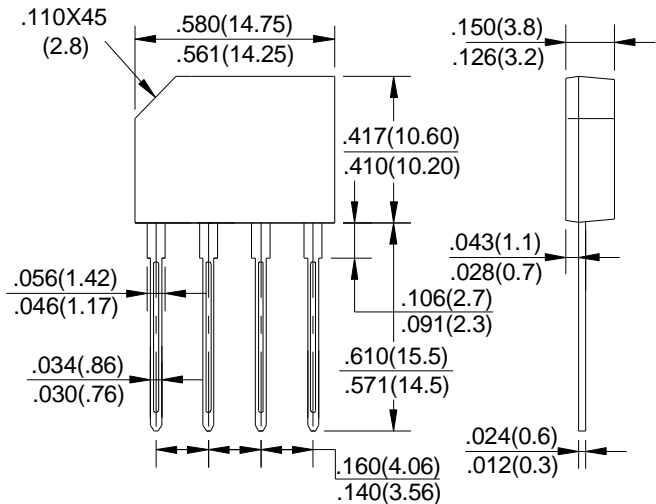
### Features

- Surge overload rating -50amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory
- flammability classification 94V-0
- Mounting position: Any

### Mechanical Data

- Case: G B P , Molded Plastic

### GBP



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBP005	GBP01	GBP02	GBP04	GBP06	GBP08	GBP10	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>	1.5							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	50							A
Maximum Forward Voltage Drop Per Bridge Element at 1.5A 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



FIG.1-FORWARD CURRENT DERATING CURVE

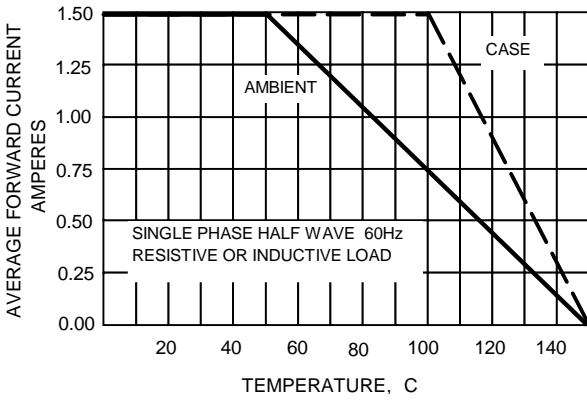


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

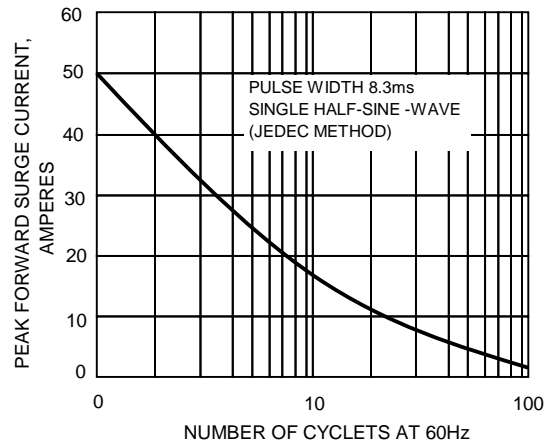


FIG.3-TYPICAL JUNCTION CAPACITANCE

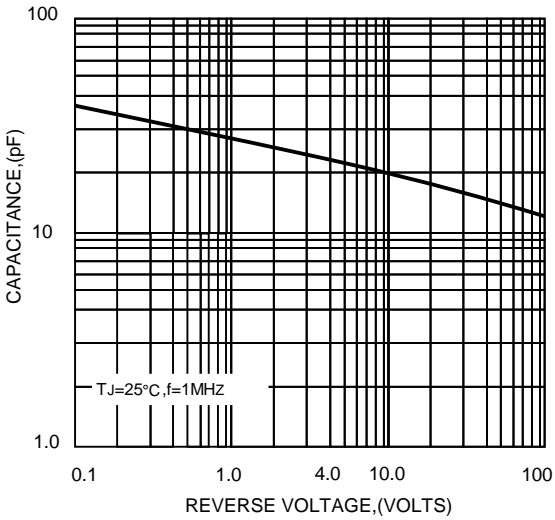


FIG.4-TYPICAL FORWARD CHARACTERISTICS

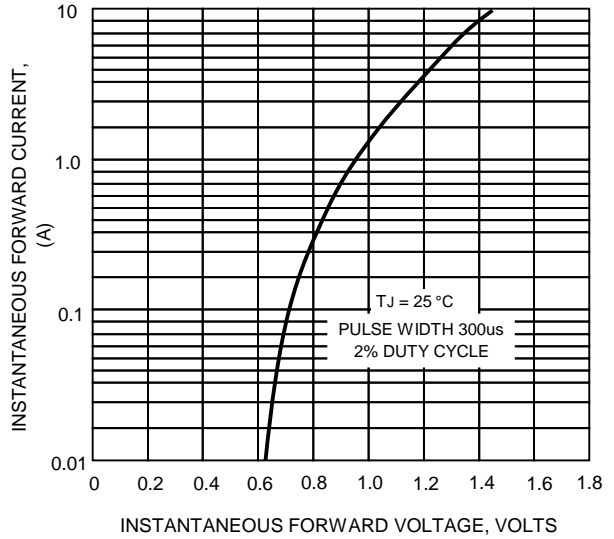


FIG.5-TYPICAL REVERSE CHARACTERISTICS

