

## GBP4005 thru GBP410

### GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 4.0Amperes

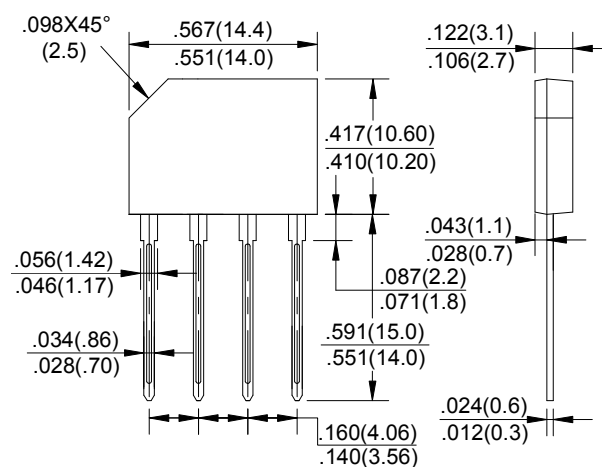
#### Package: GBP

#### FEATURES

- Surge overload rating - 110 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- 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%



Dimensions in inches and (millimeters)

CHARACTERISTICS	SYMBOL	GBP 4005	GBP 401	GBP 402	GBP 404	GBP 406	GBP 408	GBP 410	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 Current (with heatsink Ta=25°C) (without heatsink Tc=140°C)	I <sub>(AV)</sub>	4.0 1.3								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	110								A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	V <sub>F</sub>	1.1								V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I <sub>R</sub>	10.0								μA
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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## RATING AND CHARACTERISTIC CURVES GLASS PASSIVATED BRIDGE RECTIFIERS

FIG.1-FORWARD DERATING CURRENT

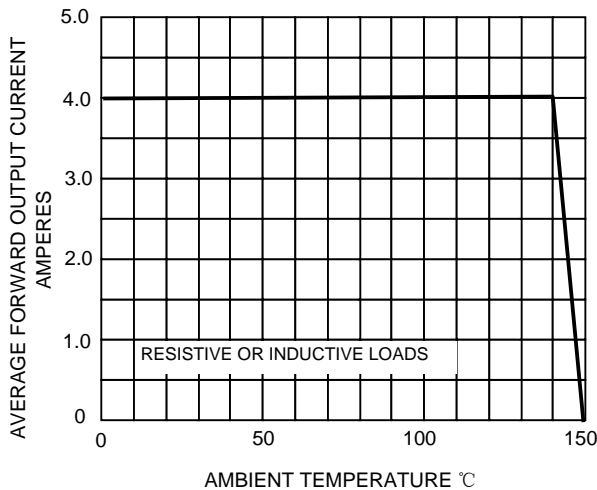


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

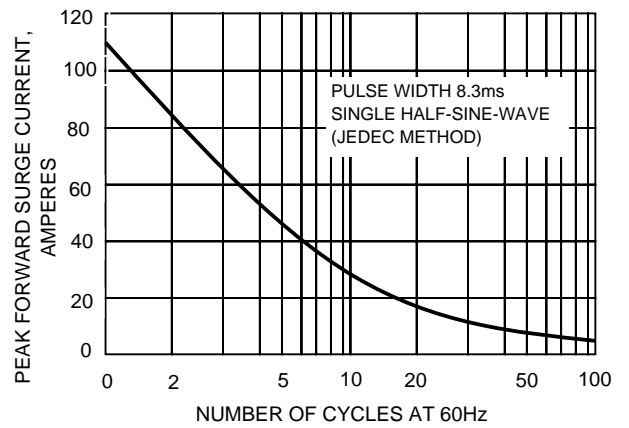


FIG.3-TYPICAL FORWARD CHARACTERISTICS

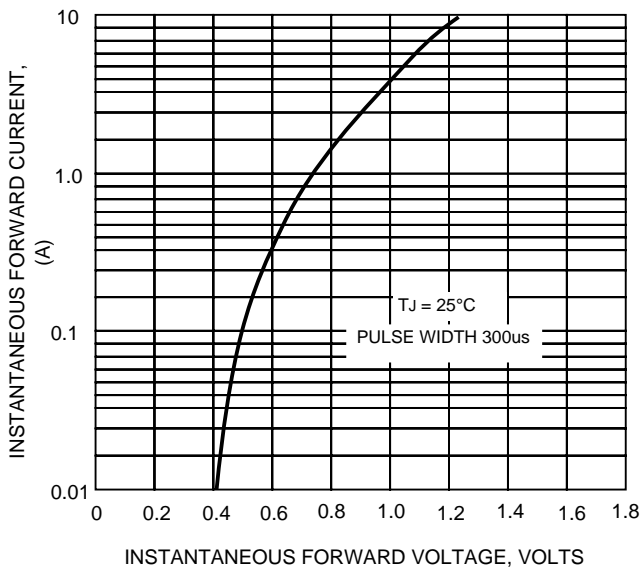


FIG.4-TYPICAL REVERSE CHARACTERISTICS

