



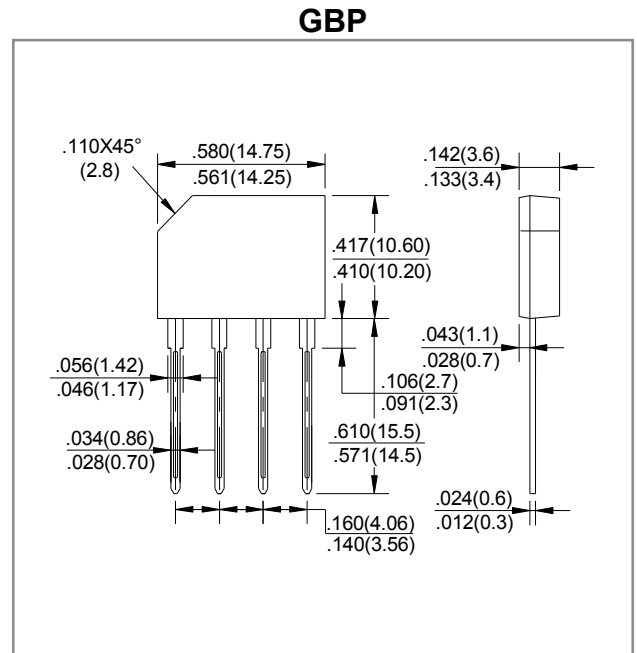
Glass Passivated Bridge Rectifiers

**Volatge Rangs - 50 to 1000 Volts**

**Forward Current - 2.0 Amperes**

## Features

- Surge overload rating - 125 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any



Dimensions in inches and (millimeters)

## 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%

PARAMETER	SYMBOL	PART NUMBERS							UNIT
		GBP 4AG	GBP 4BG	GBP 4DG	GBP 4G	GBP 4JG	GBP 4KG	GBP 4MG	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_A=50^\circ\text{C}$ <sup>1</sup>	$I_{(AV)}$	4.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	110							A
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	$V_F$	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	5							$\mu\text{A}$
	$T_J=100^\circ\text{C}$	500							$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t<8.3\text{ms}$ )	$I^2t$	50							$\text{A}^2\text{S}$
Typical Junction Capacitance per Element <sup>2</sup>	$C_J$	40							pF
Typical Thermal Resistance <sup>3</sup>	$R_{BJC}$	7.5							$^\circ\text{C/W}$
Operating & Storage Temperature Range	$T_J, T_{STG}$	-55~150, -55~150							$^\circ\text{C}$

- Note: 1. Mounting condition, 0.5" lead length maximum  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.  
 3. Unit mounted on 75mm x 75mm x 1.6mm copper plate heatsink.

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

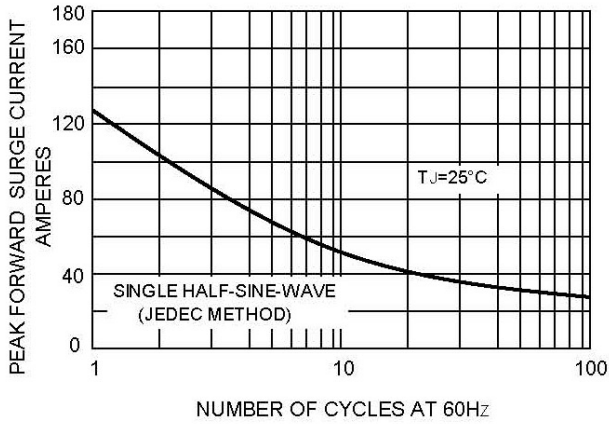


FIG.2-FORWARD DERATING CURRENT

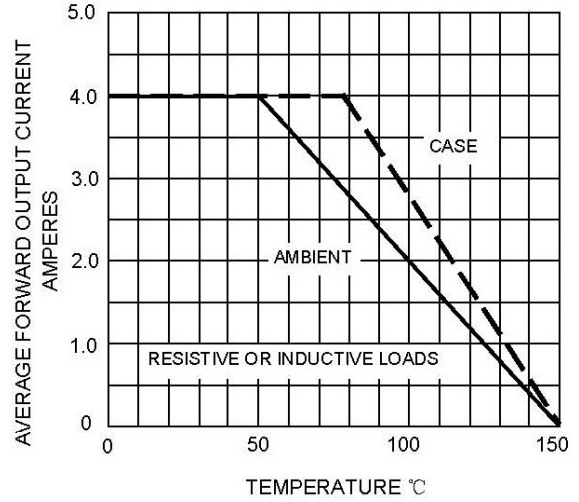


FIG.3-TYPICAL FORWARD CHARACTERISTICS

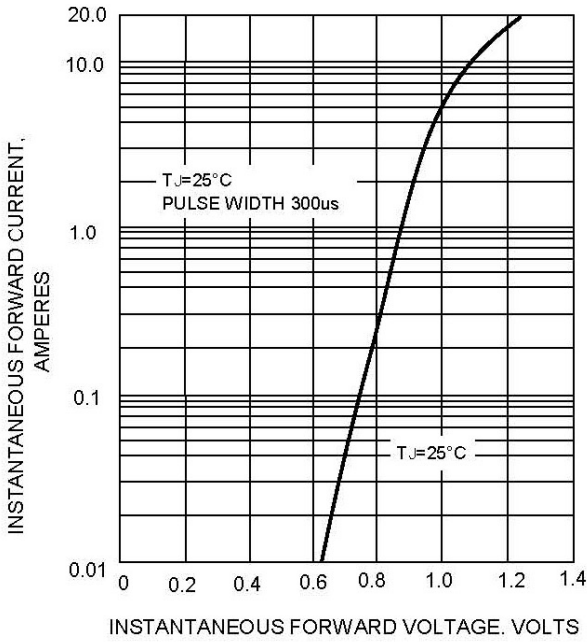


FIG.4-TYPICAL REVERSE CHARACTERISTICS

