

# Glass Passivated Bridge Rectifiers

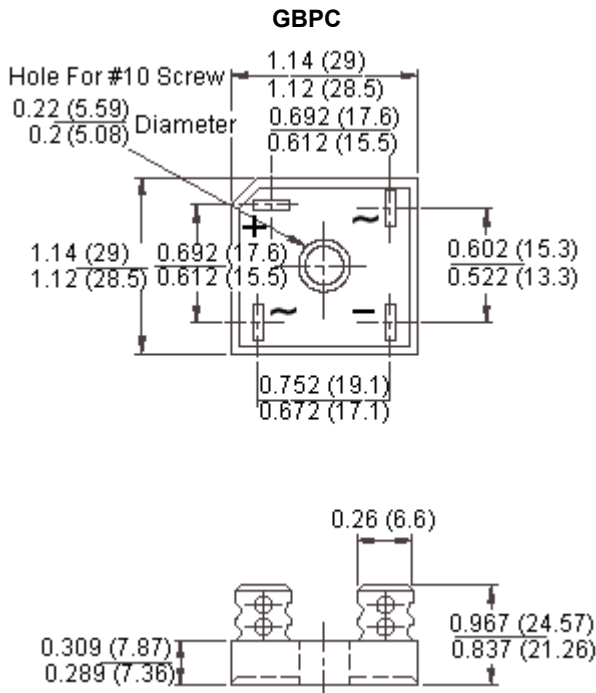


## GBPC 25 Series



### Features:

- The plastic material
- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation
- Surge overload ratings from 300 to 400 A
- Terminals solderable per MIL-STD-202, method 208 (for wire type)
- Typical  $I_R$  less than 0.2  $\mu$ A
- High temperature soldering guaranteed, 260°C / 10 seconds 0.375 inches (9.5 mm) lead lengths (for wire type)
- Isolated voltage from case to lead over 2,500 V



Dimensions : Inches (Millimetres)

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### Maximum Ratings and Electrical Characteristics

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

Type Number	GBPC2501	GBPC2502	GBPC2504	GBPC2506	Unit
Maximum Recurrent Peak Reverse Voltage	100	200	400	600	V
Maximum RMS Voltage	70	140	280	420	
Maximum DC Blocking Voltage	100	200	400	600	
Maximum Average Forward Rectified Current at $T_C = 55^\circ\text{C}$	25				A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method )	300				
Maximum Instantaneous Forward Voltage Drop Per 12.5 A Element at Specified Current	1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	5				mA
Typical Thermal Resistance (Note 1) $R_{\theta JC}$	1.5				$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range $T_J, T_{STG}$	-50 to +150				$^\circ\text{C}$

Notes: 1. Thermal resistance from junction to case

### Ratings and Characteristic Curves

Fig. 1 Maximum Forward Current Derating Curve

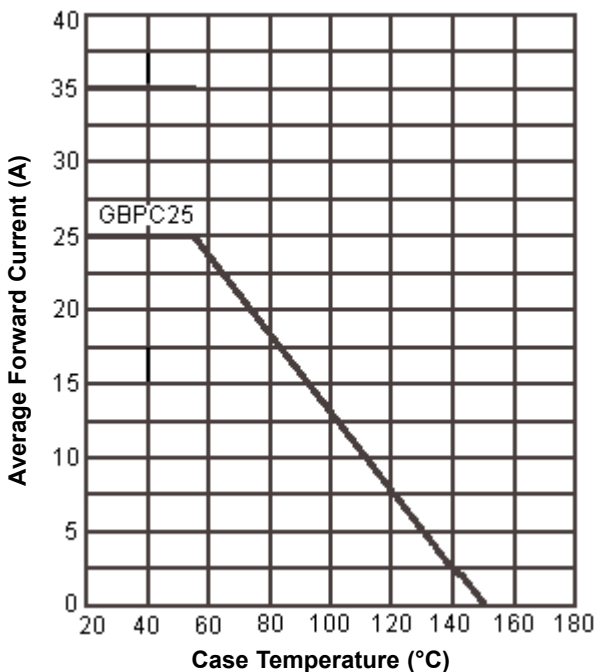
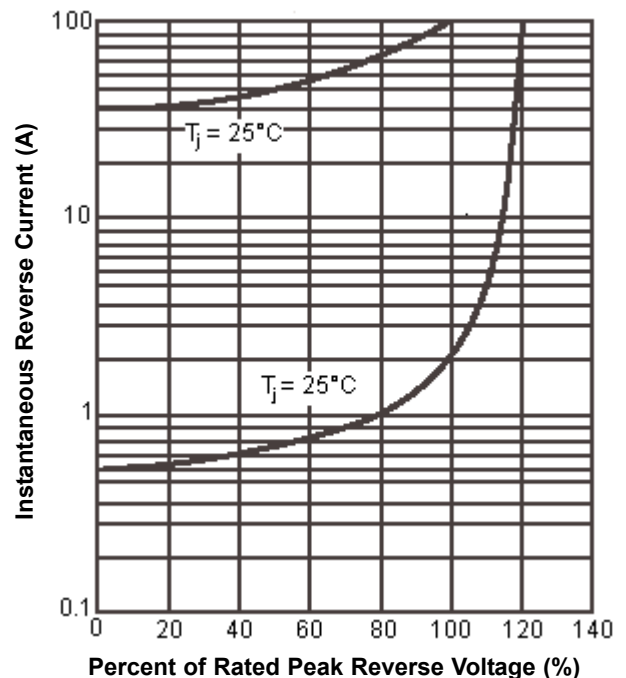


Fig. 3 Typical Reverse Characteristics Per Bridge Element



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Fig. 2 Maximum Non-Repetitive Forward Surge Current Per Bridge Element

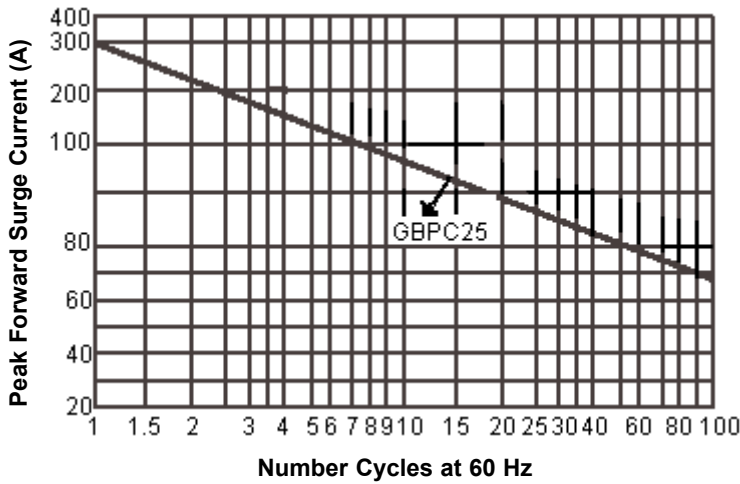
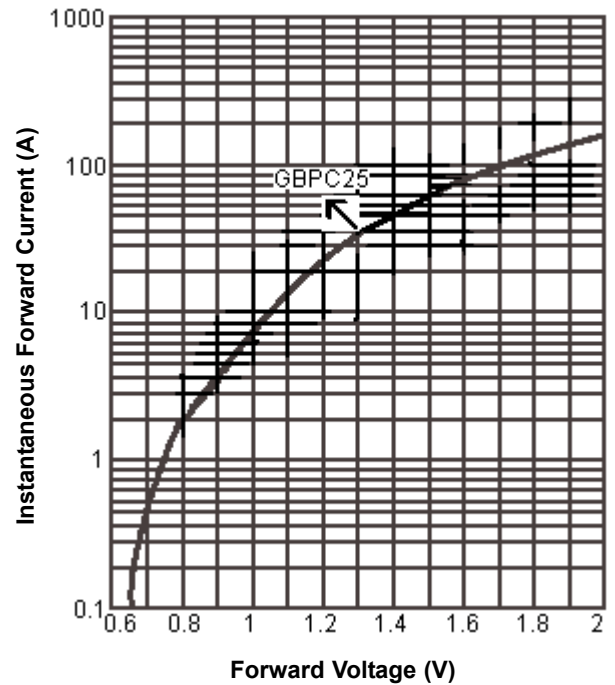


Fig. 4 Typical Forward Characteristics Per Bridge Element



### Part Number Table

Description	Part Number
Bridge Rectifier, 25 A, 100 V	GBPC2501
Bridge Rectifier, 25 A, 200 V	GBPC2502
Bridge Rectifier, 25 A, 400 V	GBPC2504
Bridge Rectifier, 25 A, 600 V	GBPC2506

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