

Bridge Rectifier



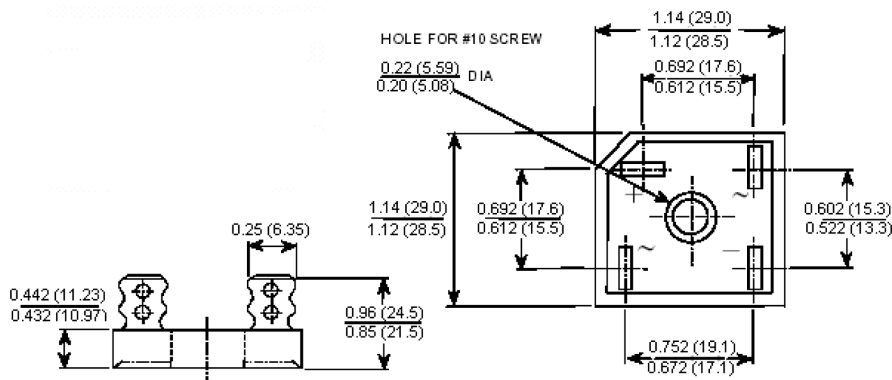
Features:

- The glass passivation process offers improvements to reliability at high operating temperatures, moisture resistance capability and overall durability
- Integrally moulded heatsink provided very low thermal resistance for maximum heat dissipation
- Surge overload rating from 300 amperes to 400A
- Terminals solderable per MIL-STD-202, Method 208 (For wire type)
- Isolated voltage from case to lead over 2,500V

Note: The maximum values of IO DC quoted are based on the assumption that the device is mounted on a chassis or some form of heatsink.

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%.							
Type Number	-005	-01	-02	-04	-06	-08	Unit
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	
Maximum DC Blocking Voltage	50	100	200	400	600	800	
Maximum Average Forward Rectified Current at $T_c = 55^\circ\text{C}$				25			A
	GBPC25			35	GBPC35		
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC25			300	GBPC35		
	GBPC35			400			
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC25 12.5A		1.1		GBPC35 17.5A		V
	GBPC35						
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element				5			uA
Typical Thermal Resistance (Note 1) $R_{\theta JC}$				1.5			°C/W
Operating and Storage Temperature Range T_J, T_{STG}				-50 to +150			°C

Note: Thermal Resistance from Junction to Case.

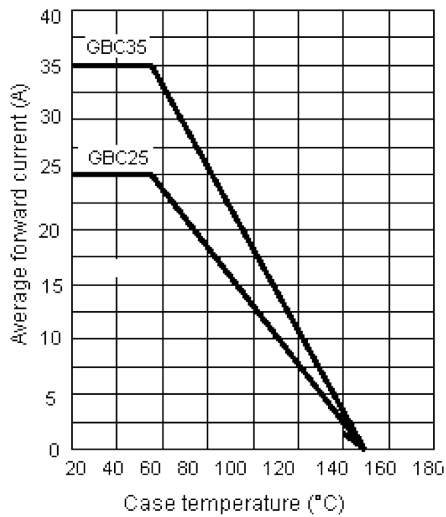


Dimensions : Millimetres

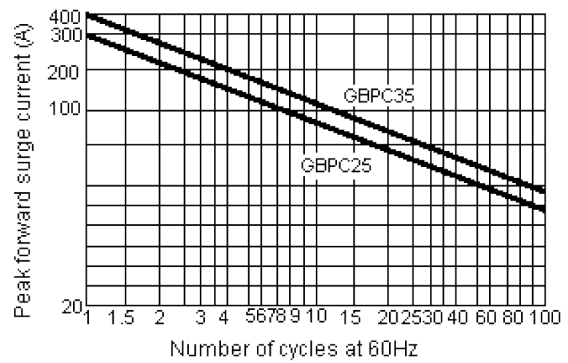


Ratings and Characteristic Curves

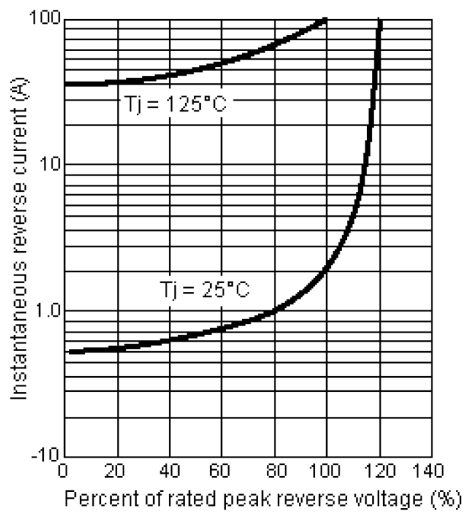
Maximum Forward Current Derating Curve



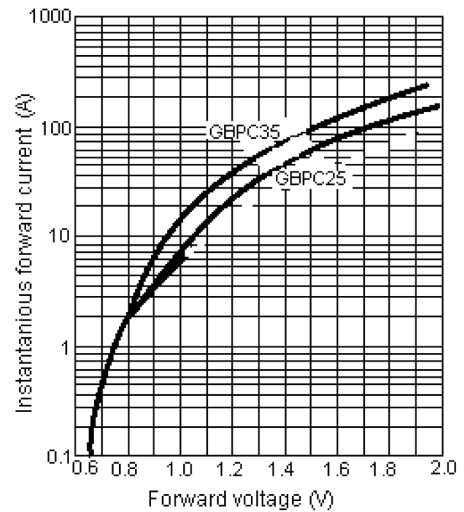
Maximum Non-Repetitive Forward Surge Current per Bridge Element



Typical Reverse Characteristics per Bridge Element



Typical Forward Characteristics per Bridge Element



Bridge Rectifier



Part Number Table

Description	V_{RRM} (V)	Maximum Input Voltage (V AC)	I_o at 55°C (A)	IFSM (A)	Part Number
Bridge Rectifier, 25A, 800V	50	35	25	300	GBPC25005
	100	70			GBPC2501
	200	140			GBPC2502
	400	280			GBPC2504
	600	420			GBPC2506
	800	560			GBPC2508
	200	140	35	400	GBPC3502
	600	420			GBPC3506

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