

GBPC25, GBPC35 Series

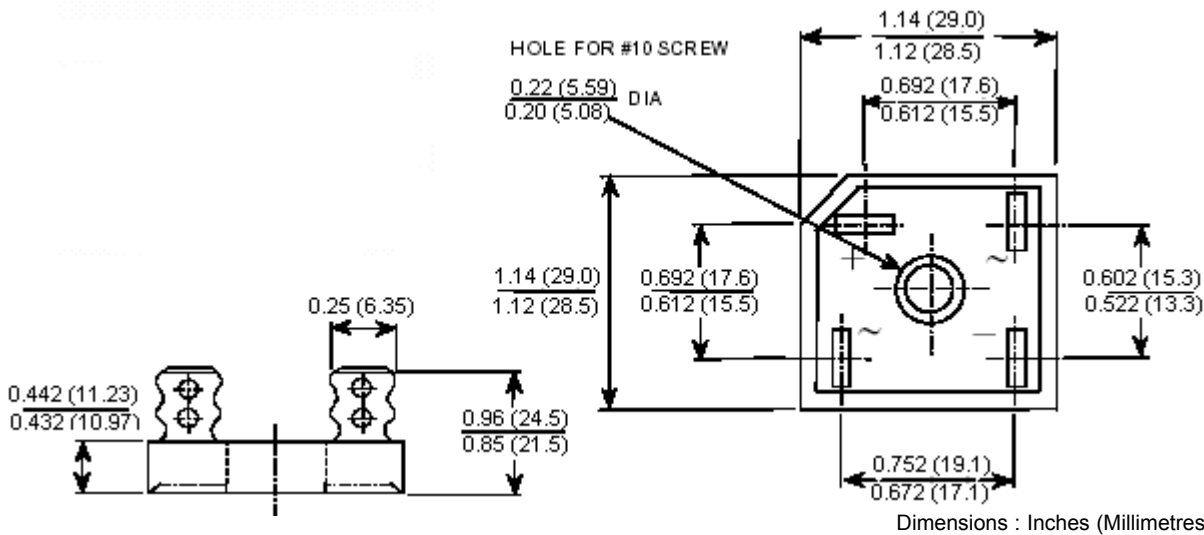
Single Phase Bridge Rectifiers



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 400 amperes.
- Terminals solderable per MIL-STD-202, Method 208 (For wire type).
- Isolated voltage from case to lead over 2500 volts.

Note: The maximum values of I_O 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 $T_C = 55^\circ\text{C}$	GBPC25		25.0				A
	GBPC35		35.0				
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC25		300				V
	GBPC35		400				
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC25	12.5A	1.1				uA
	GBPC35	17.5A					
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element			5				°C/W
Typical Thermal Resistance (Note 1) R θ JC			1.5				
Operating and Storage Temperature Range T_J, T_{STG}			-50 to +150				°C

Note: Thermal Resistance from Junction to Case.



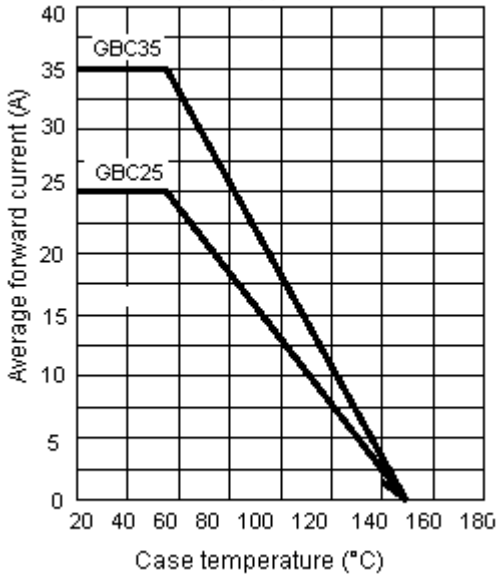
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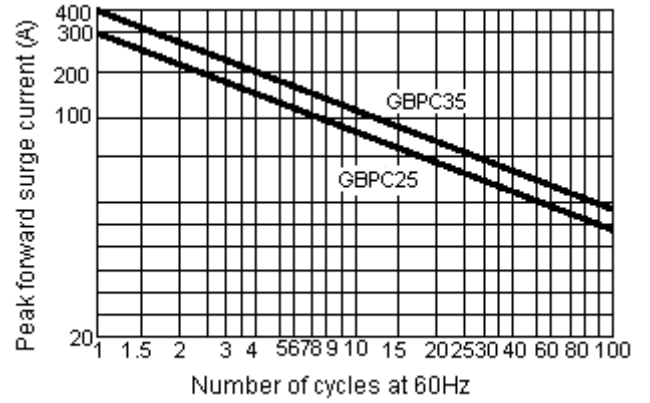


Ratings and Characteristic Curves

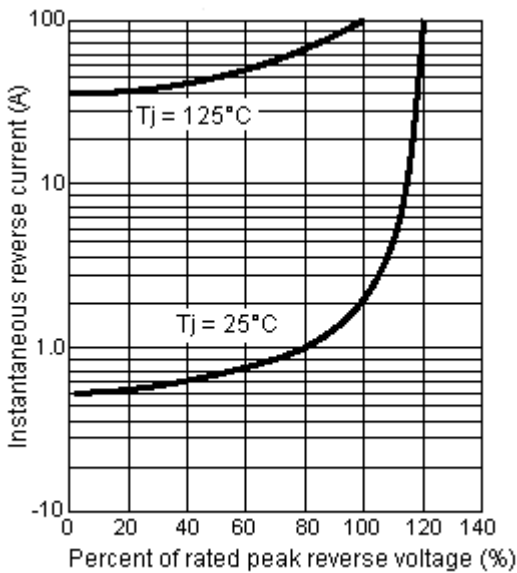
Maximum Forward Current Derating Curve



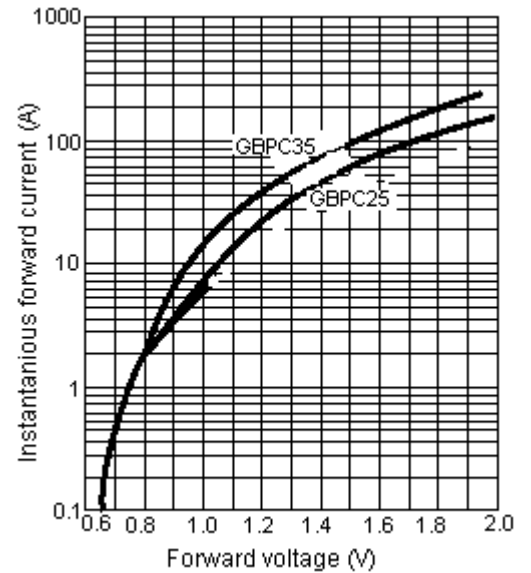
Maximum Non-Repetitive Forward Surge Current per Bridge Element



Typical Reverse Characteristics per Bridge Element



Typical Forward Characteristics per Bridge Element



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Single Phase Bridge Rectifiers



Specifications

V_{RRM} (V)	Maximum Input Voltage (V ac)	I_O at 55°C (A)	I_{FSM} (A)	Part Number
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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Notes:

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