Bridge Rectifier







Features:

- · Glass passivated junction
- · Plastic material
- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation
- Universal 4-way terminals; snap-on, wrap-around, solder or PC board mounting
- Surge overload ratings 400A
- Terminals solderable per MIL-STD-202, Method 208
- Typical IR less than 0.2μA
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths
- · Isolated voltage from case to lead over 2,500V

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		Symbol	-01	-04	-08	-10	Unit	
Maximum Recurrent Peak Reverse Voltage		VRRM	100	400	800	1,000		
Maximum RMS Voltage		VRMS	70	280	560	700	V	
Maximum DC Blocking Voltage		VDC	100	400	800	1,000		
Maximum Average Forward Rectified Current at Tc = 55°C	GBPC40 GBPC50	I (AV)	40 50			А		
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC40 GBPC50	lгsм	400 400					
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC40 at 20A GBPC50 at 25A	VF	1.1			٧		
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element		lr	10			mW		
Typical Thermal Resistance (Note 1)		Rөлс	1.5			°C/W		
Operating and Storage Temperature Range		TJ, TSTG	-50 to +150				°C	

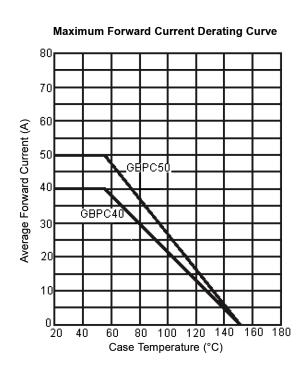
Notes: 1. Thermal Resistance from Junction to Case.

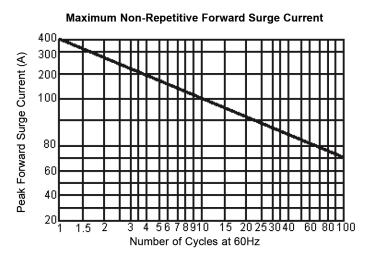


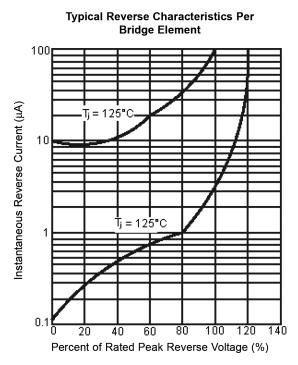
Bridge Rectifier

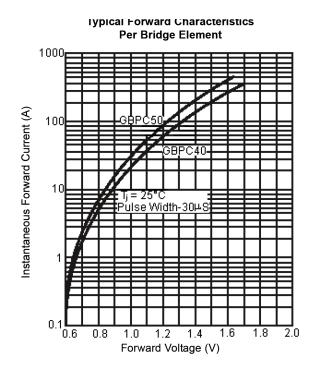


Ratings and Characteristic Curves (GBPC5001, GBPC5004, GBPC5008, GBPC5010)









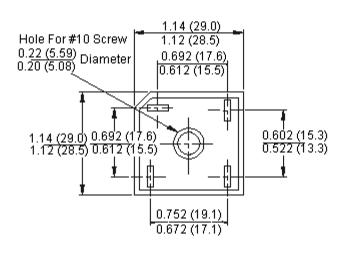
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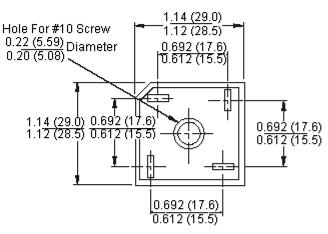


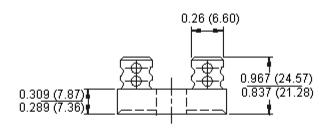
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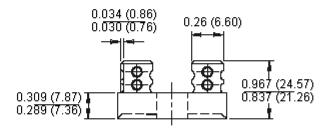


GBPC40 GBPC40-M









Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number			
Bridge Rectifier, 50A, 100V	GBPC5001			
Bridge Rectifier, 50A, 400V	GBPC5004			
Bridge Rectifier, 50A, 800V	GBPC5008			
Bridge Rectifier, 50A, 1,000V	GBPC5010			

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