Single Phase Bridge Rectifier multicomp





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
- Universal 4-way terminals; snap-on, wrap-around, solder or P.C. board mounting
- Surge overload rating 400A
- Terminals solderable per MIL-STD-202, Method 208
- Typical IR less than 0.2uA
- High temperature soldering guaranteed: 260°C/10 seconds/0.375" (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%.

Characteristics	Symbol	Values	Unit	
Maximum Recurrent Peak Reverse Voltage	m Recurrent Peak Reverse Voltage VRRM 50			
Maximum RMS Voltage	VRMS	35	V	
Maximum DC Blocking Voltage	VDC	50	1	
Maximum Average Forward Rectified Current at TC = 55°C GBPC50	I(AV)	50		
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method) GBPC50	IFSM	400	A	
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current GBPC50 at 2	25A VF	1.1	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element		10	μA	
Typical Thermal Resistance (Note 1)		1.5	°C/W	
Operating and Storage Temperature Range		-50 to +150	°C	

Note: 1. Thermal Resistance from Junction to Case

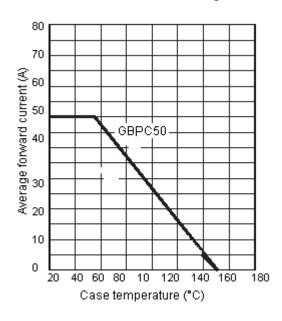


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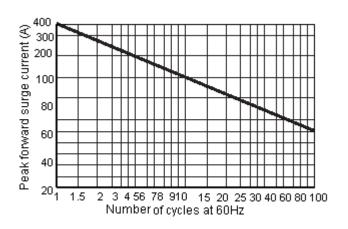


Ratings and Characteristic Curves

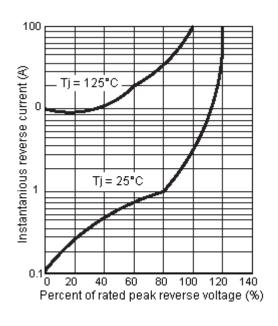
Maximum Forward Current Derating Curve



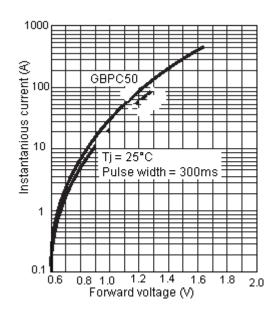
Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristics per Bridge Element



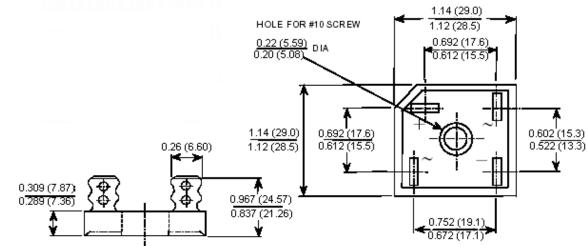
Typical Forward Characteristics per Bridge Element



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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	VRRM (V)	Maximum Input Voltage (V AC)	lo at 55°C (A)	Ifsm (A)	Part Number
Single Phase Bridge Rectifier	50	35	50	400	GBPC50005+

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