

Bridge Rectifier

GBPC Series

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Features:

- 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 rating to 400 A
- Terminals solderable per MIL-STD-202, method 208
- Typical I_R less than 0.2 μ A
- High temperature soldering guaranteed : 260°C / 10 seconds 0.375 inches (9.5mm) lead lengths (for wire type)
- 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	GBPC5002+	GBPC5006+	Units
Max. Recurrent Peak Reverse Voltage		V _{RRM}	200	600	V
Max. RMS Voltage		V _{RMS}	140	420	
Max. DC Blocking Voltage		V _{DC}	200	600	
Maximum Average Forward Rectified Current at T _C = 55°C	GBPC50	I _(AV)	50		A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC50	I _{FSM}	400		
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC50	V _F	1.2		V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element		I _R	10		µA
Typical Thermal Resistance (Note 1)		R _{θJC}	1.5		°C / W
Operating and Storage Temperature Range		T _J , T _{STG}	-50 to +150		°C

Notes: 1. Thermal Resistance from Junction to Case

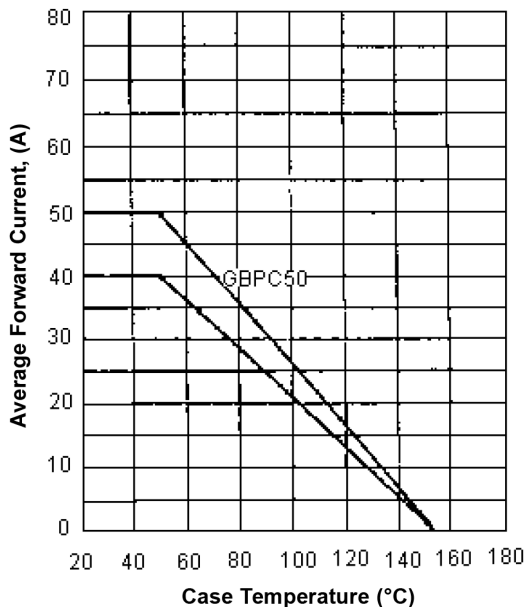
2. Suffix "W" - Wire Lead Structure

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Element14.com/multicomp-pro

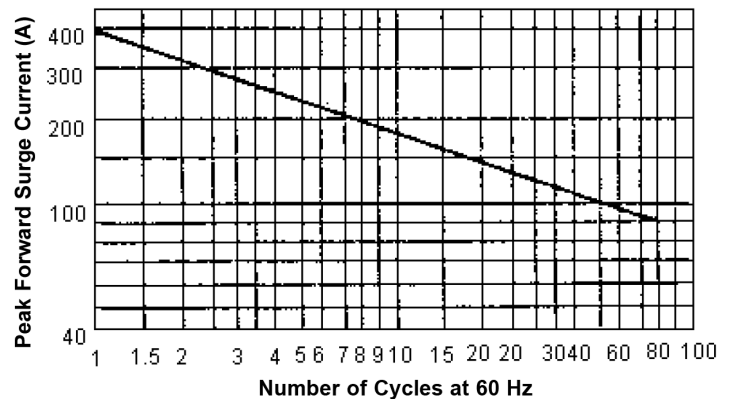
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Ratings and Characteristic Curves

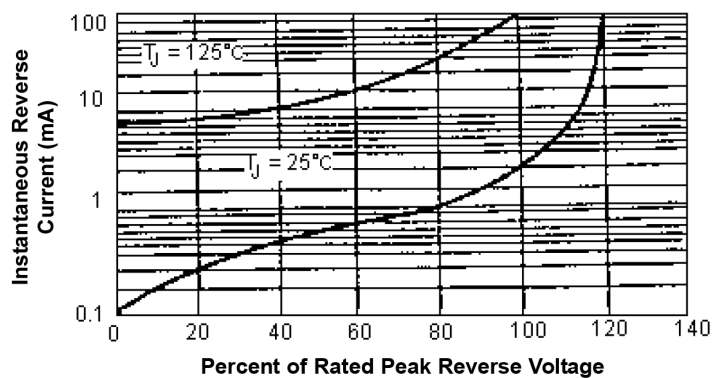
Typical Forward Current Derating Curve



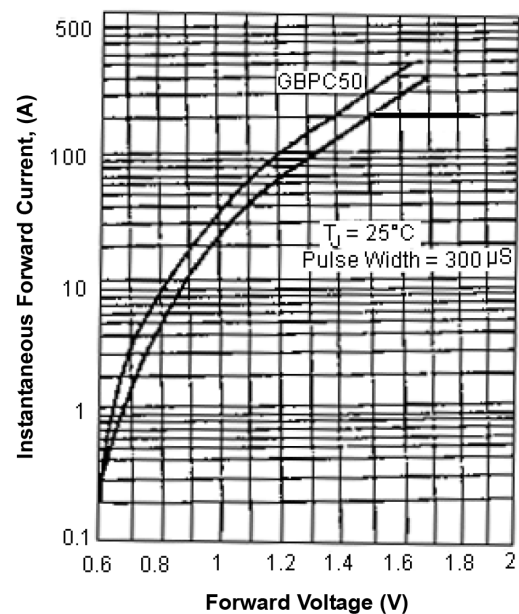
Maximum Non-Repetitive Surge Current



Typical Reverse Characteristics



Typical Forward Characteristics



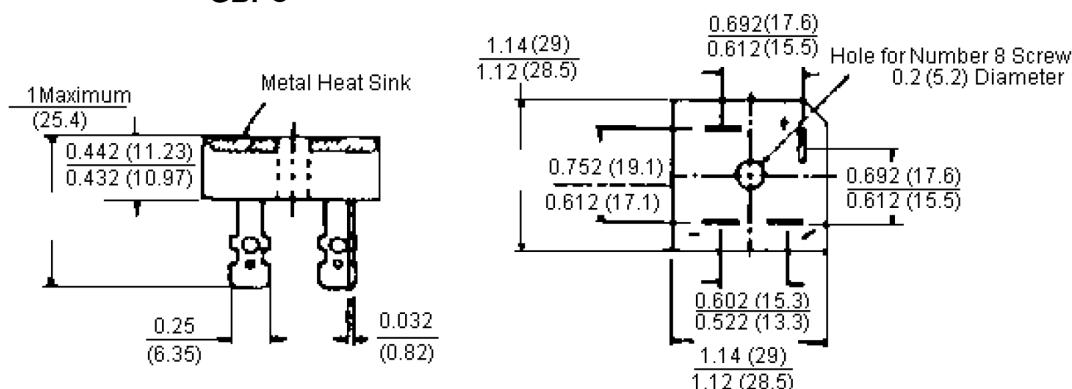
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Dimensions:

GBPC



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 50A, 200V	GBPC5002+
Bridge Rectifier, 50A, 600V	GBPC5006+

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