

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 $0.2\mu A$
- High temperature soldering guaranteed : $260^\circ C / 10$ 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 $25^\circ C$ 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 $T_c = 55^\circ C$	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)		$R_{\theta JC}$	1.5		$^\circ C / W$
Operating and Storage Temperature Range		T_J, T_{STG}	-50 to +150		$^\circ C$

- Notes:** 1. Thermal Resistance from Junction to Case
 2. Suffix "W" - Wire Lead Structure

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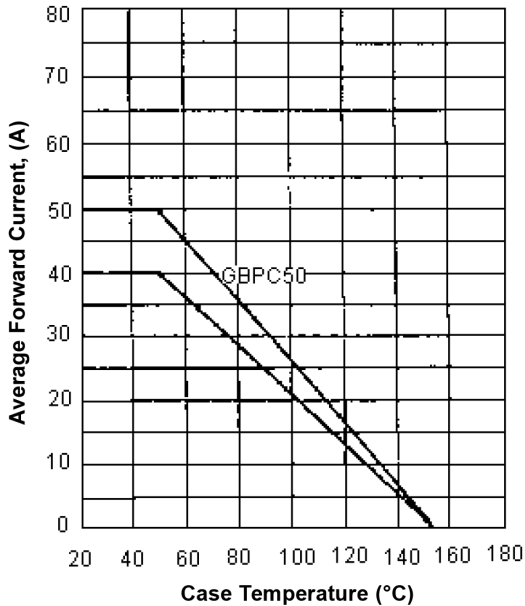
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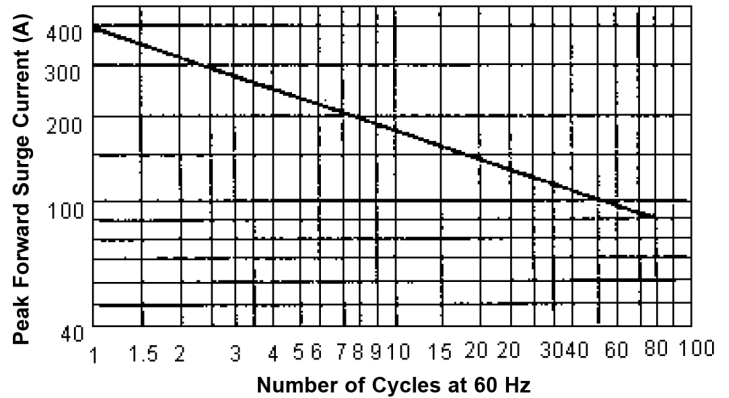
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Ratings and Characteristic Curves

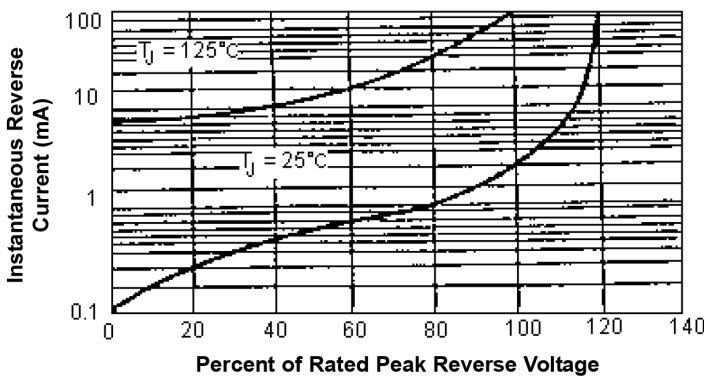
Typical Forward Current Derating Curve



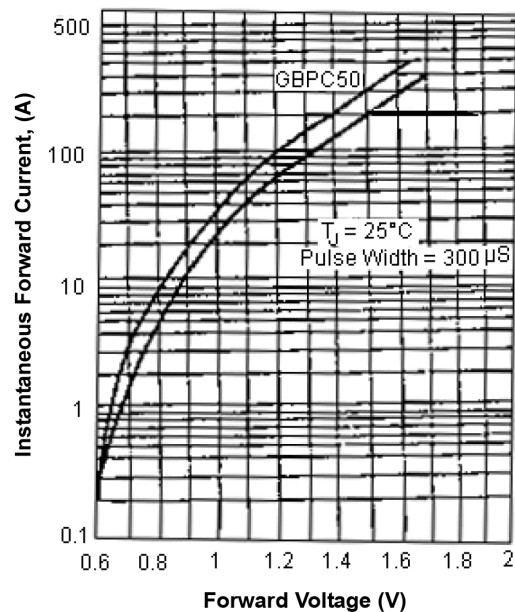
Maximum Non-Repetitive Surge Current



Typical Reverse Characteristics



Typical Forward Characteristics



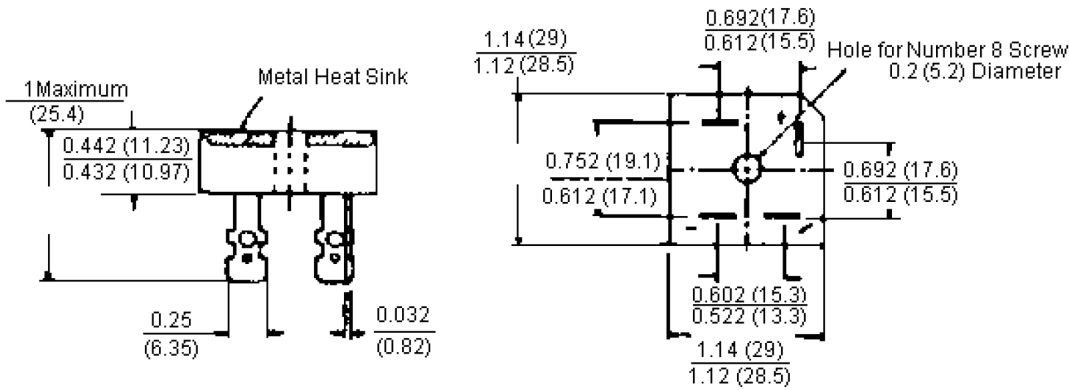
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Dimensions:

GBPC



Dimensions : Inches (Millimetres)

Part Number Table

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

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