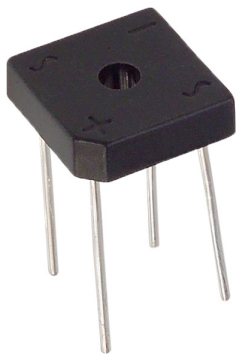


Bridge Rectifier

GBPC Series

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Features:

- Plastic material
- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation
- Surge overload ratings from 300 to 400A
- Terminals solderable per MIL-STD-202, method 208 (for wire type)
- 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	-01	-02	-04	-06	-08	-10	Units
Max. Recurrent Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1,000	V
Max. RMS Voltage		V_{RMS}	70	140	280	420	560	700	
Max. DC Blocking Voltage		V_{DC}	100	200	400	600	800	1,000	
Maximum Average Forward Rectified Current at $T_c = 55^\circ\text{C}$	GBPC15	$I_{(AV)}$	15						A
	GBPC25		25						
GBPC35	35								
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC15	I_{FSM}	300						V
	GBPC25		300						
	GBPC35		400						
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC15 7.5 A GBPC25 12.5 A GBPC35 17.5 A	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element		I_R	5						mA
Typical Thermal Resistance (Note 1)		$R_{\theta JC}$	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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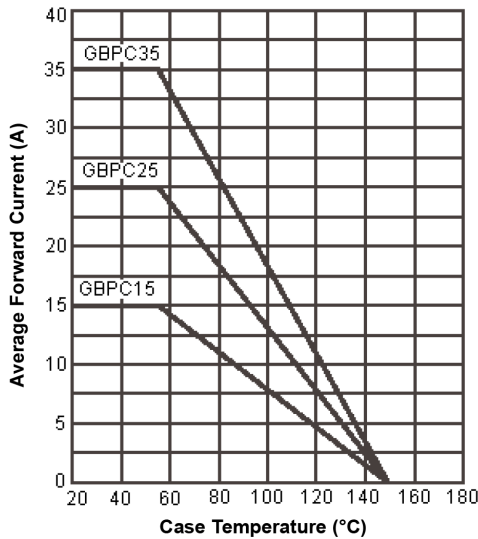
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Bridge Rectifier GBPC Series

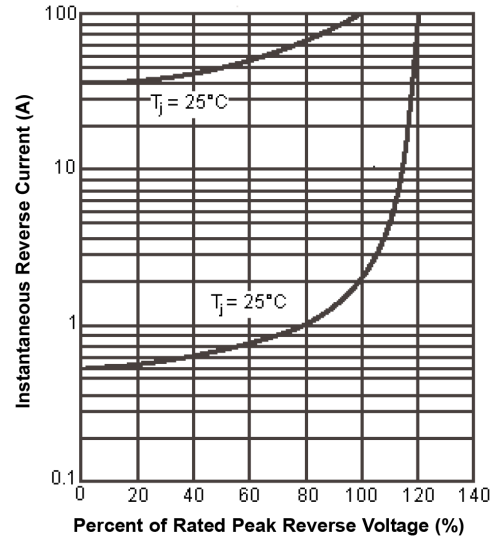
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Ratings and Characteristic Curves

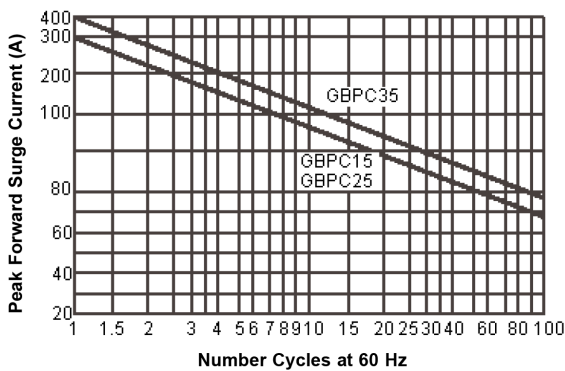
Maximum Forward Current Derating Curve



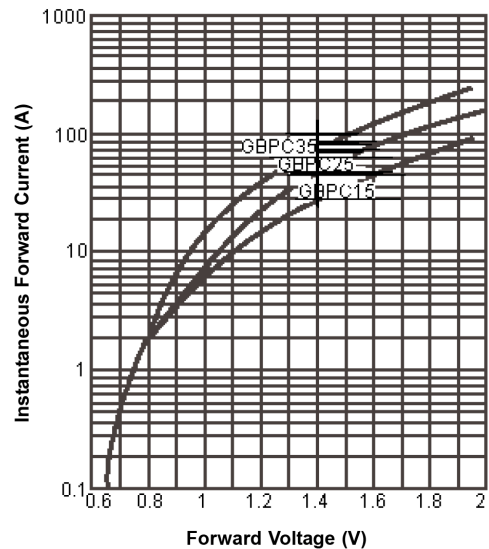
Typical Reverse Characteristics Per Bridge Element



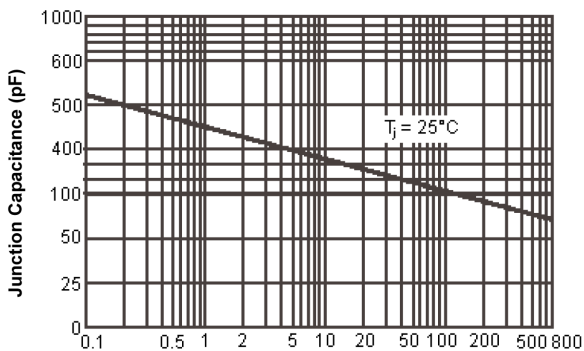
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Forward Characteristics Per Bridge Element



Typical Junction Capacitance



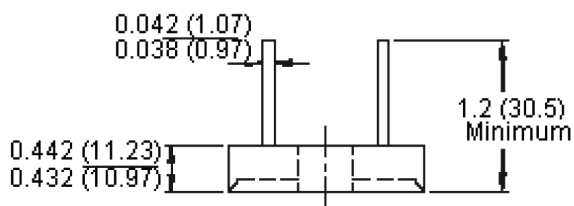
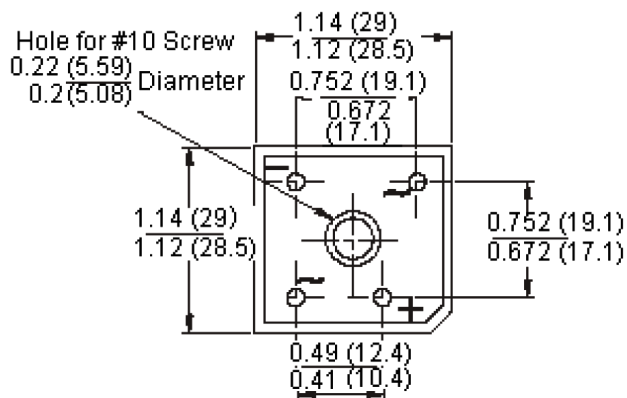
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Bridge Rectifier GBPC Series

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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 15A, 200V	GBPC1502W+
Bridge Rectifier, 25A, 100V	GBPC2501W+
Bridge Rectifier, 25A, 200V	GBPC2502W+
Bridge Rectifier, 25A, 400V	GBPC2504W+
Bridge Rectifier, 25A, 600V	GBPC2506W+
Bridge Rectifier, 25A, 800V	GBPC2508W+
Bridge Rectifier, 25A, 1,000V	GBPC2510W+
Bridge Rectifier, 35A, 200V	GBPC3502W+
Bridge Rectifier, 35A, 400V	GBPC3504W+
Bridge Rectifier, 35A, 600V	GBPC3506W+
Bridge Rectifier, 35A, 800V	GBPC3508W+
Bridge Rectifier, 35A, 1,000V	GBPC3510W+

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