



element14

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[GBPC1502W](#)

[GBPC2501W](#)

[GBPC2504W](#)

[GBPC2506W](#)

[GBPC2508W](#)

[GBPC2510W](#)

[GBPC35005W](#)

[GBPC3502W](#)

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Cette fiche technique est
présentée par le fabricant

Bridge Rectifiers

GBPC Series

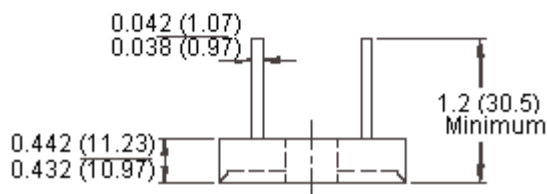
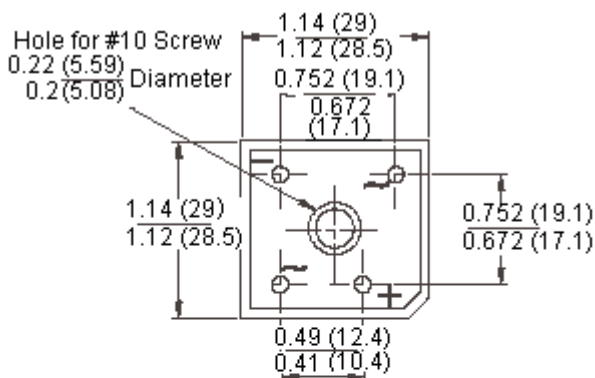


Features:



- Plastic material
- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation
- Surge overload ratings from 300 to 400 A
- 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 inch (9.5 mm) lead lengths (for wire type)
- Isolated voltage from case to lead over 2,500 V

GBPC-W



Dimensions : Inches (Millimetres)

Bridge Rectifiers



GBPC Series

Maximum Ratings and Electrical Characteristics

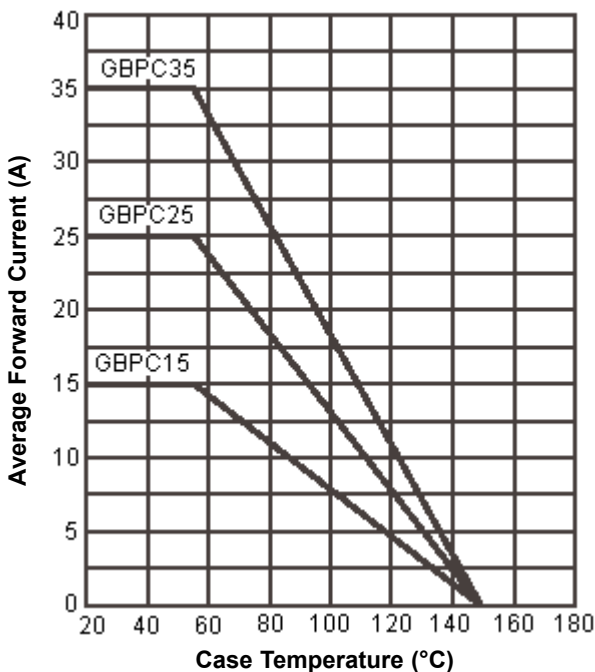
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	-005	-01	-02	-04	-06	-08	-10	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1,000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1,000	
Maximum Average Forward Rectified Current at $T_C = 55^\circ\text{C}$	$I_{(AV)}$				15	25			A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}				300	300	400		
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	V_F	GBPC15 7.5 A GBPC25 12.5 A GBPC35 17.5 A				1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	I_R				5				mW
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$				1.5				$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}				-50 to +150				$^\circ\text{C}$

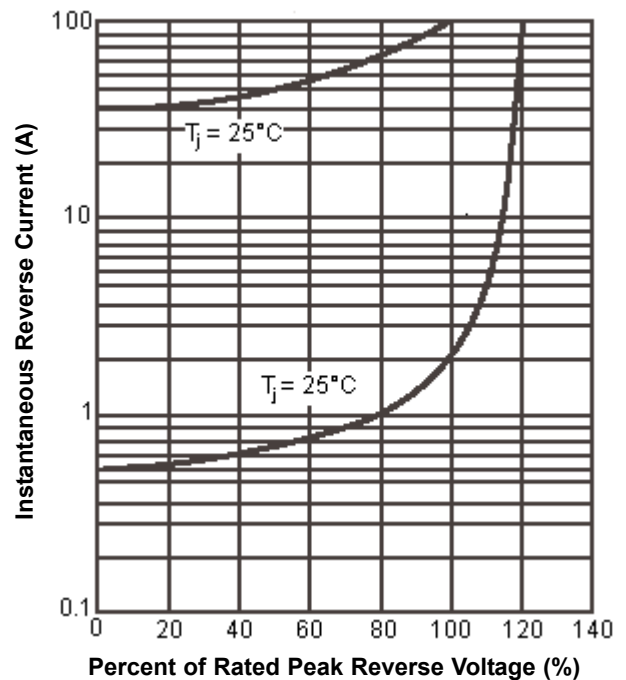
- Notes: 1. Thermal resistance from junction to case
2. Suffix "W" - wire lead structure

Ratings and Characteristic Curves (GBPC15005 thru GBPC1510, GBPC25005 thru GBPC2510, GBPC35005 thru GBPC3510)

Maximum Forward Current Derating Curve



Typical Reverse Characteristics Per Bridge Element

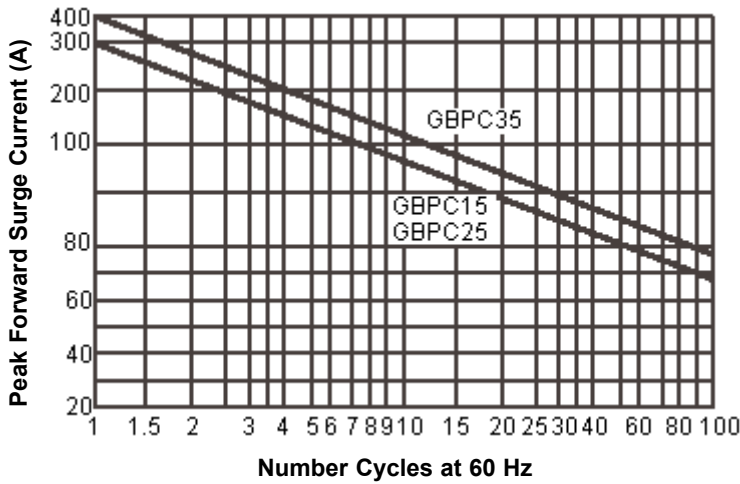


Bridge Rectifiers

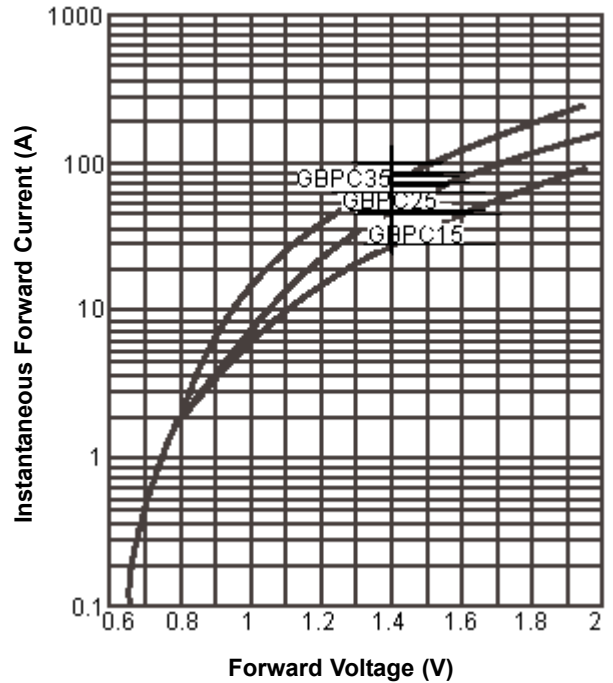


GBPC Series

Maximum Non-Repetitive Forward Surge Current Per Bridge Element



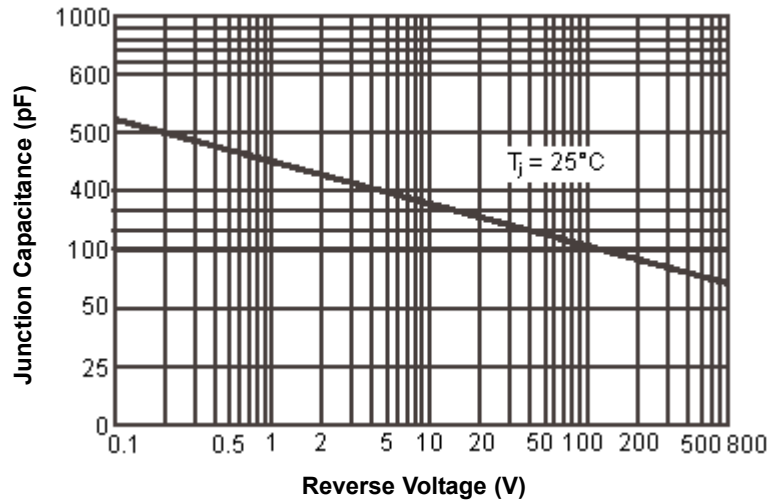
Typical Forward Characteristics Per Bridge Element



Part Number Table

Description	Part Number
Bridge Rectifier, 15 A, 50 V	GBPC15005W
Bridge Rectifier, 15 A, 100 V	GBPC1501W
Bridge Rectifier, 15 A, 200 V	GBPC1502W
Bridge Rectifier, 15 A, 400 V	GBPC1504W
Bridge Rectifier, 15 A, 600 V	GBPC1506W
Bridge Rectifier, 15 A, 800 V	GBPC1508W
Bridge Rectifier, 15 A, 1000 V	GBPC1510W
Bridge Rectifier, 25 A, 100 V	GBPC2501W
Bridge Rectifier, 25 A, 200 V	GBPC2502W
Bridge Rectifier, 25 A, 400 V	GBPC2504W
Bridge Rectifier, 25 A, 600 V	GBPC2506W
Bridge Rectifier, 25 A, 800 V	GBPC2508W
Bridge Rectifier, 25 A, 1,000 V	GBPC2510W
Bridge Rectifier, 35 A, 50 V	GBPC35005W
Bridge Rectifier, 35 A, 100 V	GBPC3501W
Bridge Rectifier, 35 A, 200 V	GBPC3502W
Bridge Rectifier, 35 A, 400 V	GBPC3504W
Bridge Rectifier, 35 A, 600 V	GBPC3506W
Bridge Rectifier, 35 A, 800 V	GBPC3508W
Bridge Rectifier, 35 A, 1,000 V	GBPC3510W

Typical Junction Capacitance



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