Bridge Rectifiers

GBPC Series







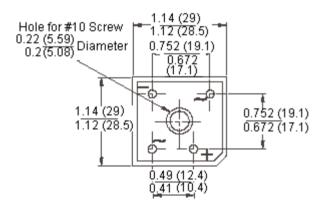


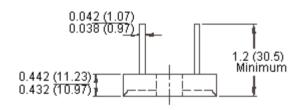
Features:



- 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 μA
- 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)



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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%

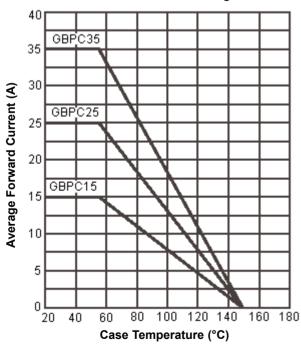
Type Number		Symbol	-005	-01	-02	-04	-06	-08	-10	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1,000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1,000	
Maximum Average Forward Rectified Current at T _C = 55°C	GBPC15 GBPC25 GBPC35	I _(AV)	15 25 35						- A	
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC15 GBPC25 GBPC35	I _{FSM}	300 300 400							
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						mW	
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

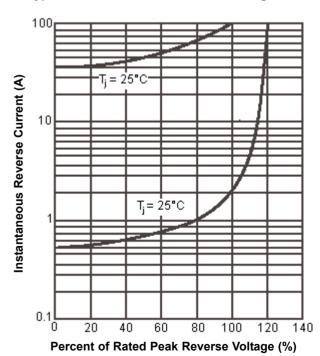
2. Suffix "W" - wire lead structure

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

Maximum Forward Current Derating Curve



Typical Reverse Characteristics Per Bridge Element



www.element14.com www.farnell.com www.newark.com www.cpc.co.uk

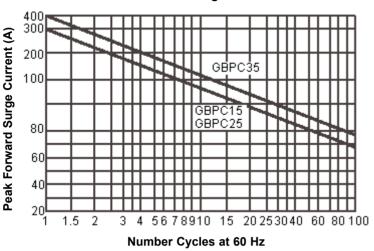


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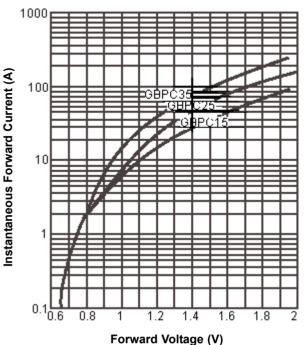
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



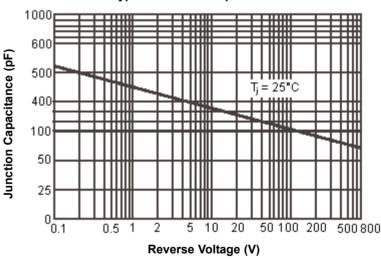
Part Number Table

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 Forward Characteristics Per Bridge Element



Typical Junction Capacitance



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