Bridge Rectifier GBPC Series

multicomp PRO



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 IR less than 0.2µA
- 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	-005+	-01+	-04+	-06+	-08+	-10+	Units
Max. Recurrent Peak Reverse Voltage		Vrrm	50	100	400	600	800	1,000	
Max. RMS Voltage		Vrms	35	70	280	420	560	700	V
Max. DC Blocking Voltage		Vdc	50	100	400	600	800	1,000	
Maximum Average Forward Rectified Current at Tc = 55°C	GBPC15 GBPC35	l(AV)	15 35					A	
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC15 GBPC35	Ігѕм	300 400						
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC15 7.5 A GBPC35 17.5 A	VF	1.1					V	
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element		lr	5					mA	
Typical Thermal Resistance (Note 1)		Rejc	1.5					°C / W	
Operating and Storage Temperature Range		Тј ,Тѕтс	-50 to +150					°C	

Notes: 1. Thermal Resistance from Junction to Case

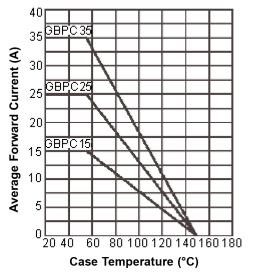
2. Suffix "W" - Wire Lead Structure

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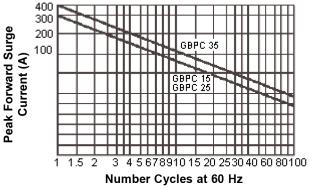


Ratings and Characteristic Curves

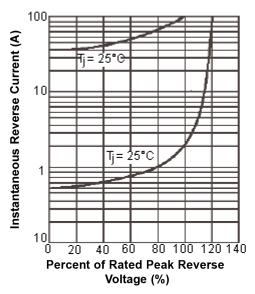




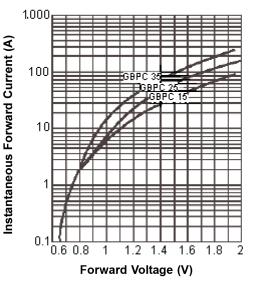
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Reverse Characteristics Per Bridge Element



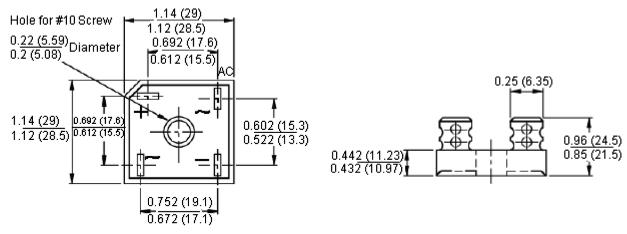
Typical Forward Characteristics Per Bridge Element



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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number			
Bridge Rectifier, 15A, 50V	GBPC15005+			
Bridge Rectifier, 15A, 100V	GBPC1504+			
Bridge Rectifier,15A, 600V	GBPC1506+			
Bridge Rectifier, 15A, 800V	GBPC1508+			
Bridge Rectifier, 35A, 100V	GBPC3501+			
Bridge Rectifier, 35 A, 600V	GBPC3506+			
Bridge Rectifier, 35A, 800V	GBPC3508+			
Bridge Rectifier, 35A, 1,000V	GBPC3510+			
Bridge Rectifier, 50A, 100V	GBPC5001+			

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