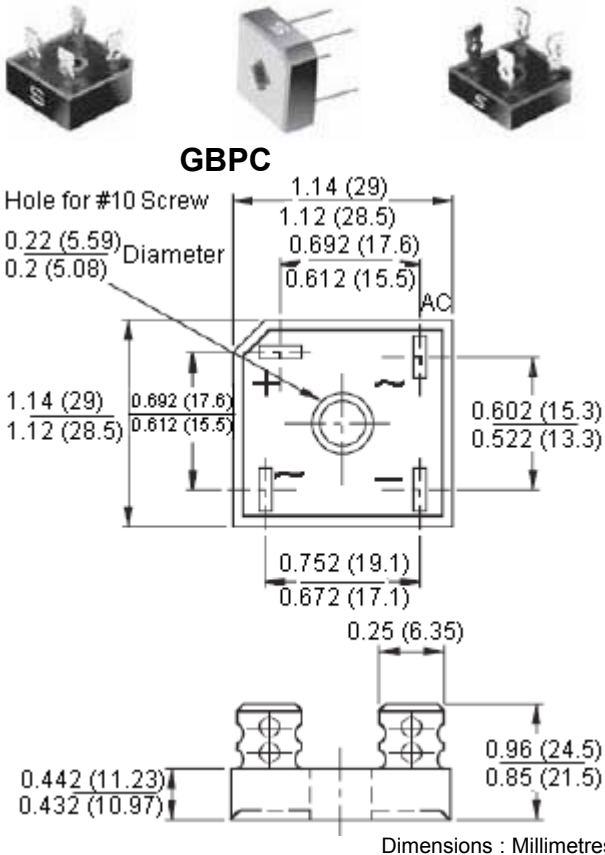


Bridge Rectifier

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 inches (9.5 mm) lead lengths (for wire type)
- Isolated voltage from case to lead over 2,500 V

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%

Type Number	Symbol	-005	-01	-02	-04	-06	-08	-10	Units
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	I _(AV)	15 25 35							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	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	I _R	5							mA
Typical Thermal Resistance (Note 1)	R _{θJC}	1.5							°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to +150							°C

Bridge Rectifier

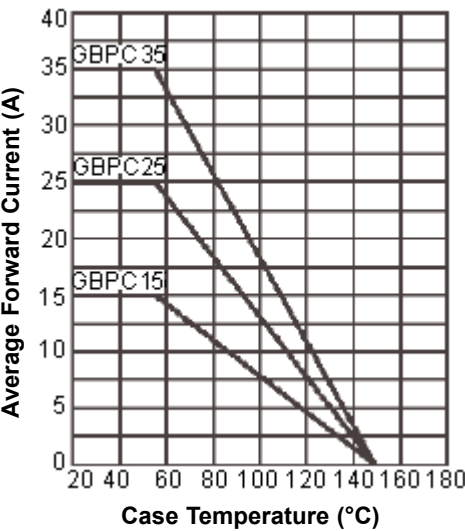
GBPC Series



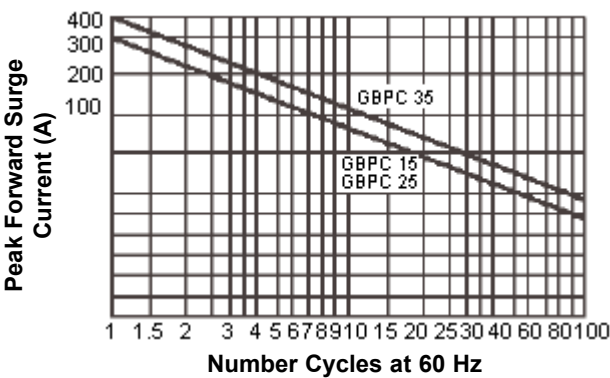
Notes: 1. Thermal Resistance from Junction to Case
2. Suffix "W" - Wire Lead Structure

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

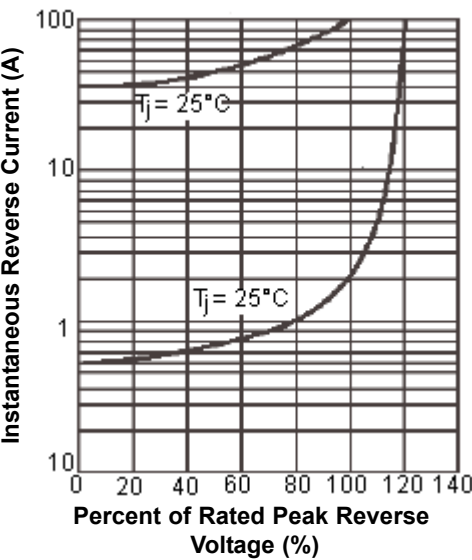
Maximum Forward Current Derating Curve



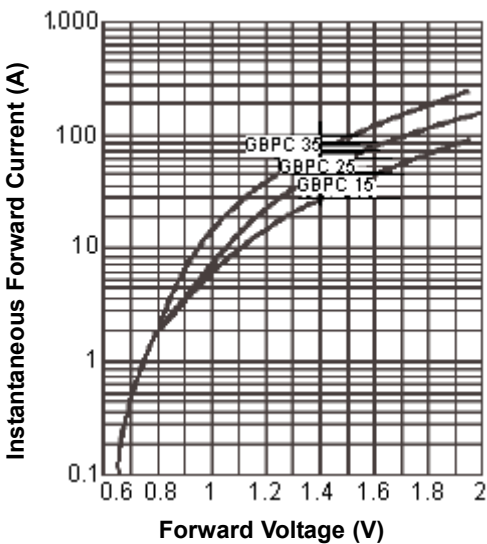
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Reverse Characteristics Per Bridge Element



Typical Forward Characteristics Per Bridge Element



Bridge Rectifier

GBPC Series



Part Number Table

Description	Part Number
Bridge Rectifier, 15 A, 50 V	GBPC15005
Bridge Rectifier, 15 A, 100 V	GBPC1501
Bridge Rectifier, 15 A, 200 V	GBPC1502
Bridge Rectifier, 15 A, 400 V	GBPC1504
Bridge Rectifier, 15 A, 600 V	GBPC1506
Bridge Rectifier, 15 A, 800 V	GBPC1508
Bridge Rectifier, 15 A, 1,000 V	GBPC1510
Bridge Rectifier, 25 A, 1,000 V	GBPC2510
Bridge Rectifier, 35 A, 50 V	GBPC35005B0
Bridge Rectifier, 35 A, 100 V	GBPC3501
Bridge Rectifier, 35 A, 400 V	GBPC3504
Bridge Rectifier, 35 A, 600 V	GBPC3506
Bridge Rectifier, 35 A, 800 V	GBPC3508
Bridge Rectifier, 35 A, 1,000 V	GBPC3510
Bridge Rectifier, 50 A, 100 V	GBPC5001
Bridge Rectifier, 50 A, 400 V	GBPC5004

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