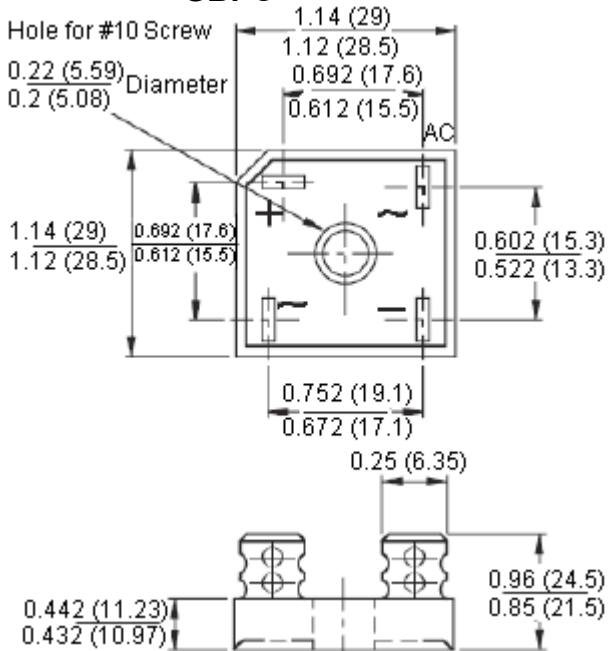


# Bridge Rectifier

## GBPC Series



### GBPC



Dimensions : Millimetres

### 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  $\mu$ 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 $T_c = 55^\circ\text{C}$	$I_{(AV)}$					15				A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$					25				
						35				
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	$V_F$					300				V
						300				
						400				
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	$I_R$					1.1				mA
						5				
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

# Bridge Rectifier

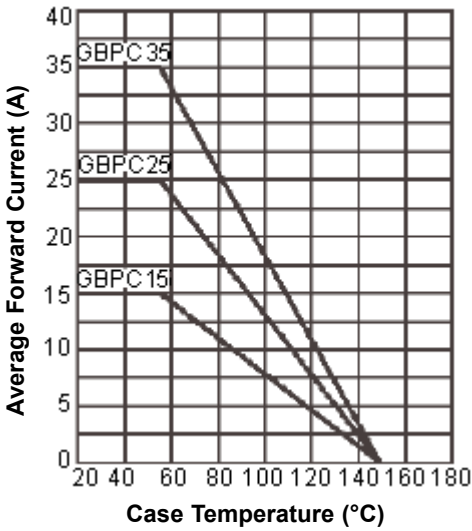
## GBPC Series



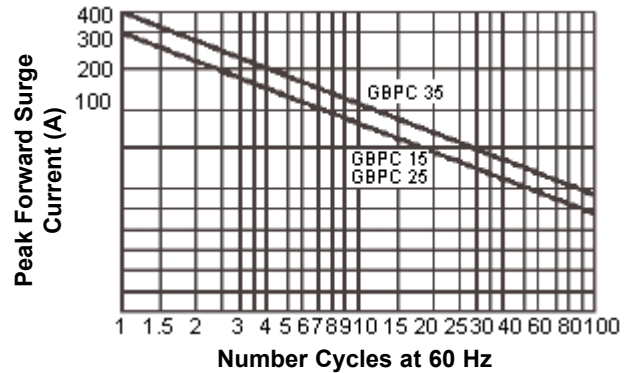
- Notes:** 1. Thermal Resistance from Junction to Case  
 2. Suffix "W" - Wire Lead Structure

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

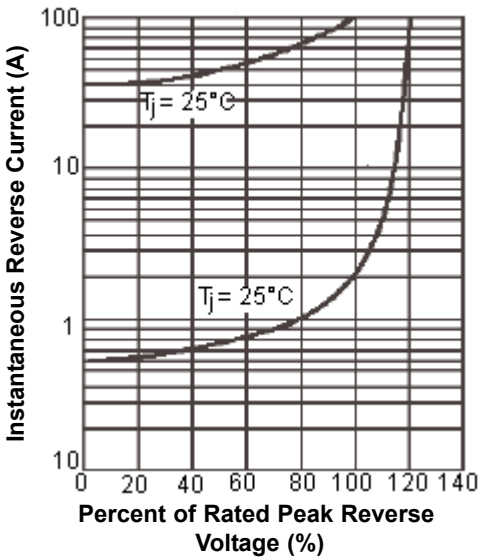
Maximum Forward Current Derating Curve



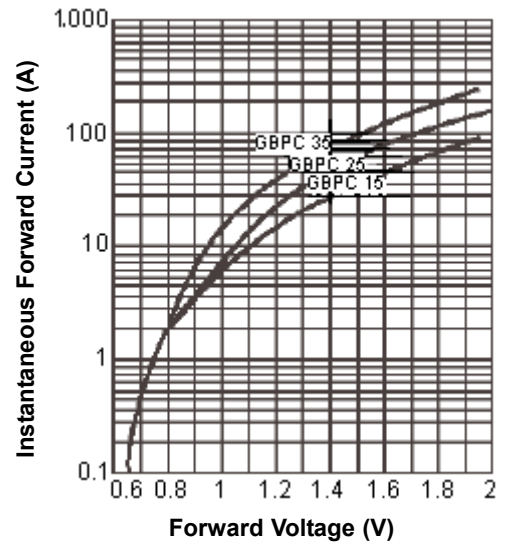
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



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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