

# Bridge Rectifier Diode



RoHS  
Compliant



## 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  $I_R$  less than  $0.2\mu A$
- High temperature soldering guaranteed :  $260^{\circ}C$  / 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  $25^{\circ}C$  ambient temperature unless otherwise specified  
Single phase, half wave, 60Hz, resistive or inductive load  
For capacitive load, derate current by 20%

Characteristics		Symbol	Values	Units
Max. Recurrent Peak Reverse Voltage		$V_{RRM}$	600	V
Max. RMS Voltage		$V_{RMS}$	420	
Max. DC Blocking Voltage		$V_{DC}$	600	
Maximum Average Forward Rectified Current at $T_c = 55^{\circ}C$	GBPC25	$I_{(AV)}$	25	A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC25	$I_{FSM}$	300	
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC25 12.5 A	$V_F$	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element		$I_R$	5	mA
Typical Thermal Resistance (Note 1)		$R_{\theta JC}$	1.5	$^{\circ}C / W$
Operating and Storage Temperature Range		$T_J, T_{STG}$	-50 to +150	$^{\circ}C$

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

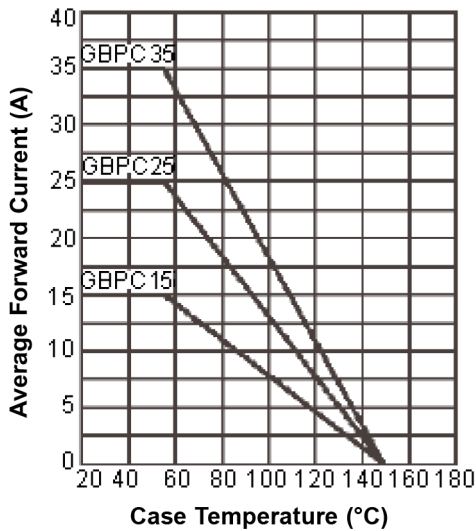


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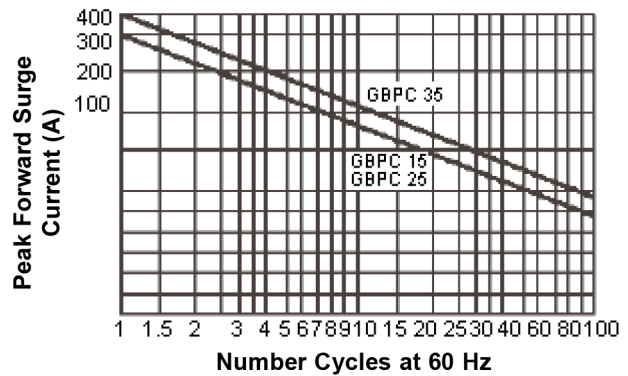


## Ratings and Characteristic Curves

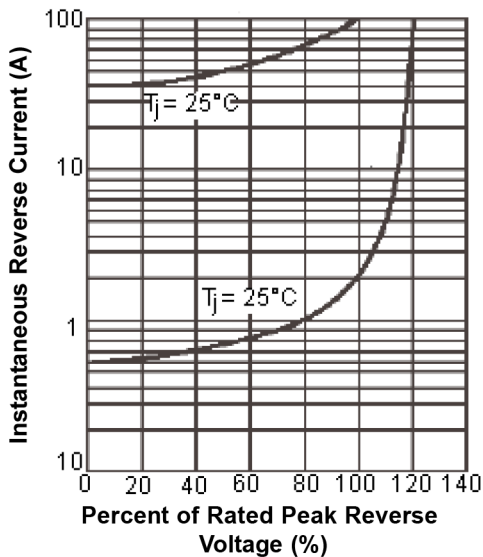
Maximum Forward Current Derating Curve



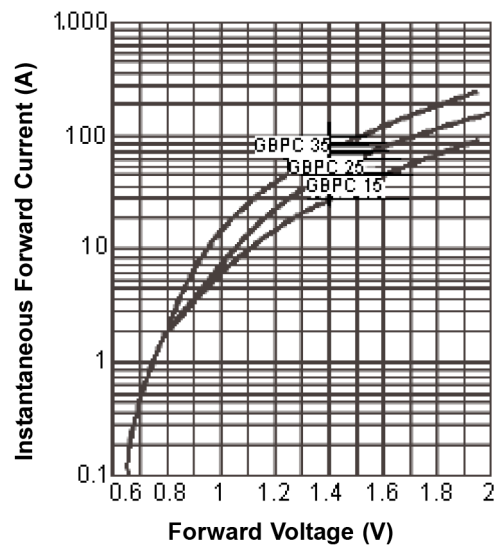
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Reverse Characteristics Per Bridge Element



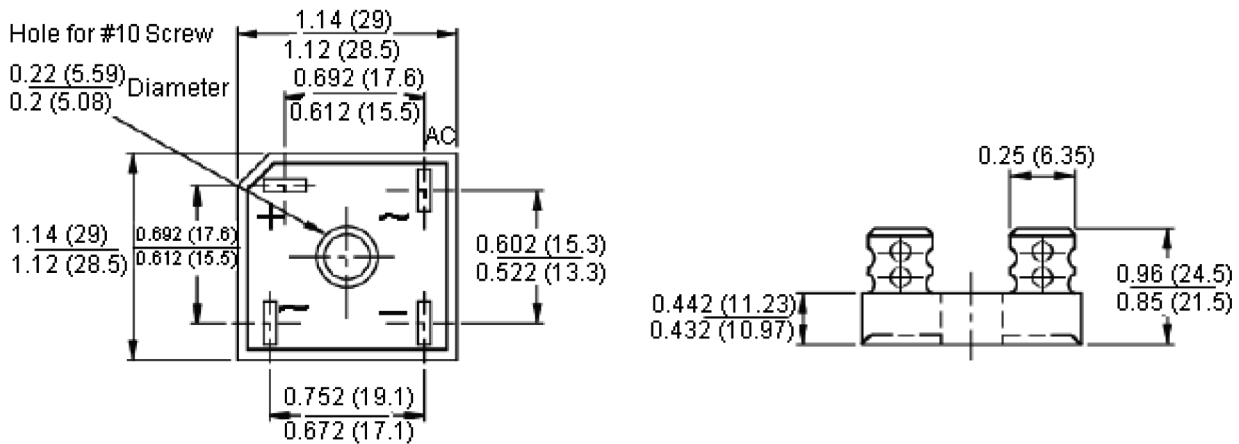
Typical Forward Characteristics Per Bridge Element



# Bridge Rectifier Diode



## Dimensions:



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Bridge Rectifier, Single, 25A, 600V	GBPC2506+

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