

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 μ A
- 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	Values	Units
Max. Recurrent Peak Reverse Voltage		V_{RRM}	400	V
Max. RMS Voltage		V_{RMS}	280	
Max. DC Blocking Voltage		V_{DC}	400	
Maximum Average Forward Rectified Current at $T_c = 55^\circ\text{C}$	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	$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range		T_J, T_{STG}	-50 to +150	$^\circ\text{C}$

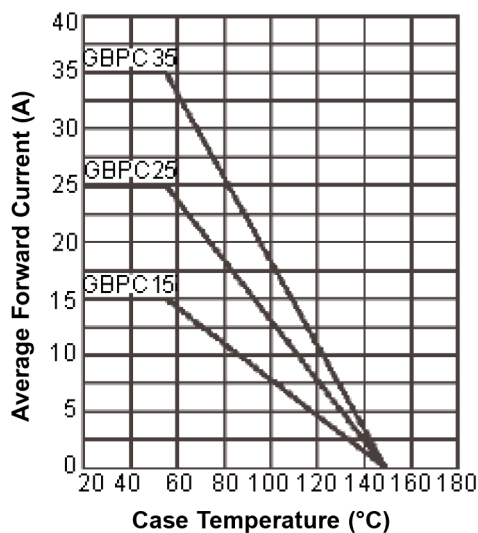
Notes: 1. Thermal Resistance from Junction to Case
2. Suffix "W" - Wire Lead Structure

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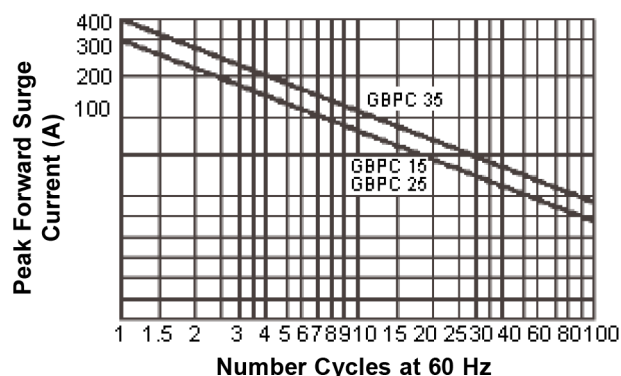


Ratings and Characteristic Curves

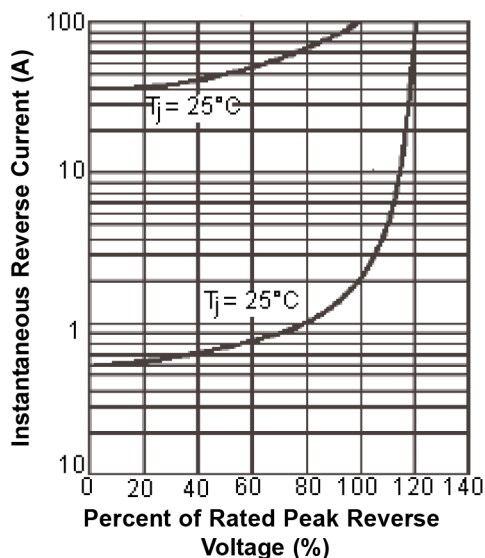
Maximum Forward Current Derating Curve



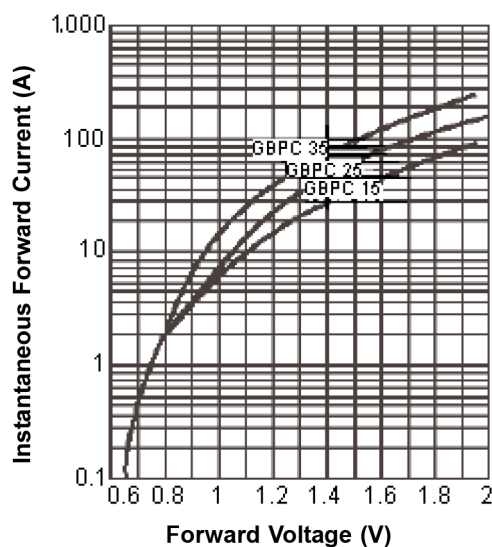
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



Typical Reverse Characteristics Per Bridge Element



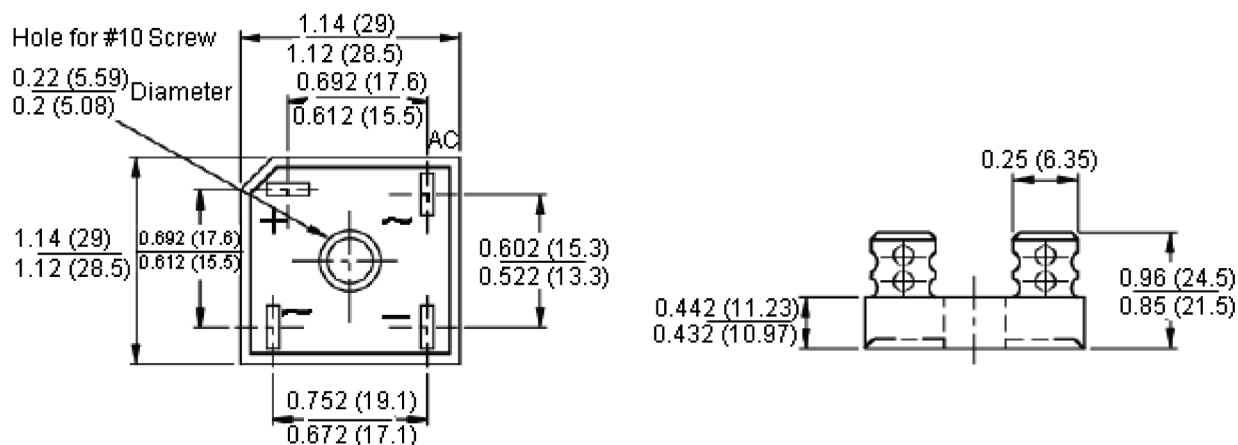
Typical Forward Characteristics Per Bridge Element



Bridge Rectifier Diode



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, Single, 25A, 400V	GBPC2504+

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