Bridge Rectifier Diode





Features:

- The Plastic material used carries underwriters laboratory flammability recognition 94V-0.
- · 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 2,500 volts

Mechanical Data

Case : Moulded plastic body.

Terminals : Pure tin plated, lead free leads solderable per MIL-STD-202, Method 208.

Mounting Torque : 20 inches-lbs. maximum.

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		Vrrm	50	
Max. RMS Voltage		VRMS	35	V
Max. DC Blocking Voltage		VDC	50	
Rectified Current	GBPC25	I(AV)	25	
Single Sine-wave Superimposed	GBPC25	IFSM	300	A
Forward Voltage Drop Per	GBPC25 12.5A	VF	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element (Note 1)		lr	5	μА
Typical Thermal Resistance		Rөлс	1.5	°C/W
Operating and Storage Temperature Range		Тл ,Tsтg	-50 to +150	°C

Notes: 1. Pulse test with PW = 300µsec, 1% duty cycle.

2. Suffix "W" - wire lead structure/ "M" - terminal location face to face.

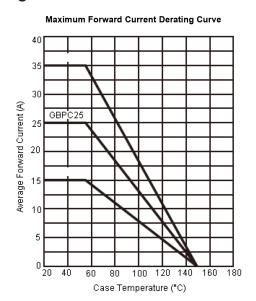
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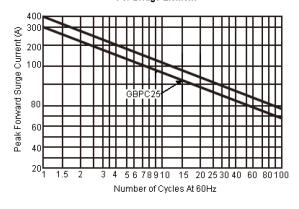
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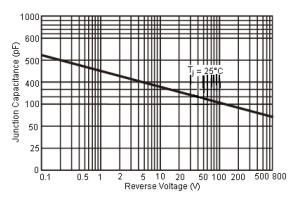
Ratings and Characteristic Curves



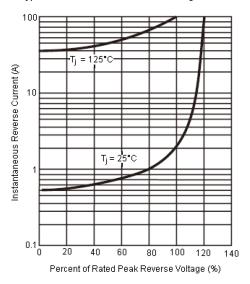
Maximum Non-Repetitive Forward Surge Current Per Bridge Element



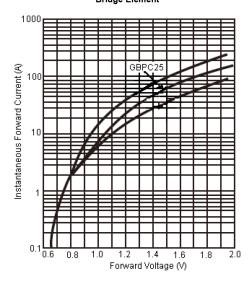
Typical Junction Capacitance



Typical Reverse Characteristics Per Bridge Element



Typical Reverse Characteristics Per Bridge Element



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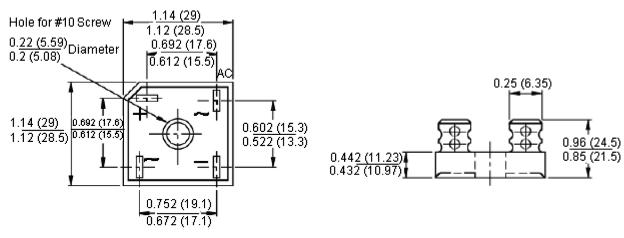


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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Bridge Rectifier, 25A, 50V	GBPC25005+	

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