

Glass Passivated Bridge Rectifiers

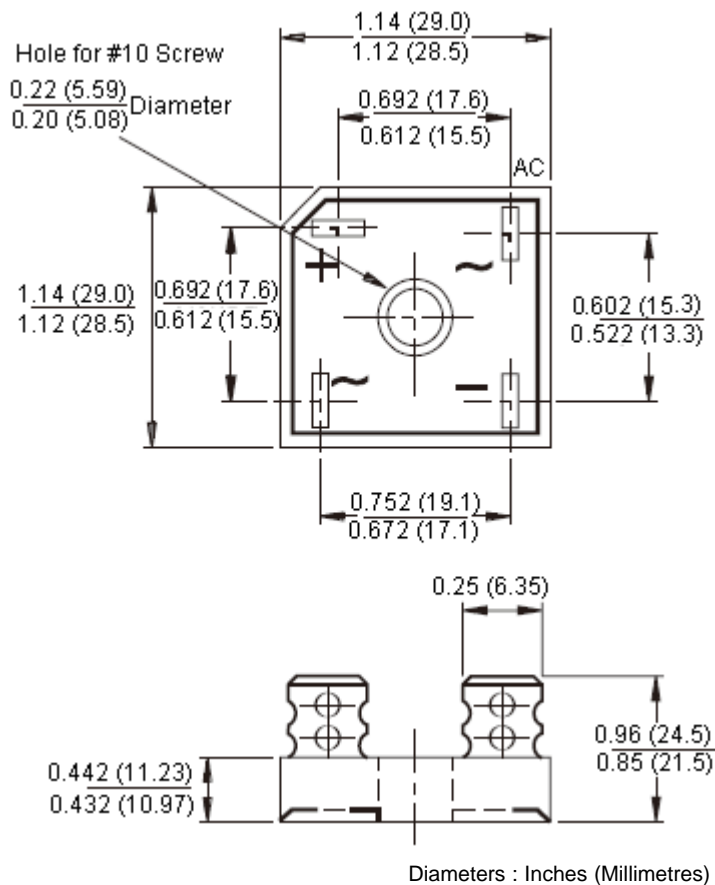


Features:



- UL Recognized file # E-326243.
- 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 amperes to 400 amperes.
- Typical I_R less than $0.2\mu A$.
- 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 2500 volts.

GBPC



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.



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Maximum Rating and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

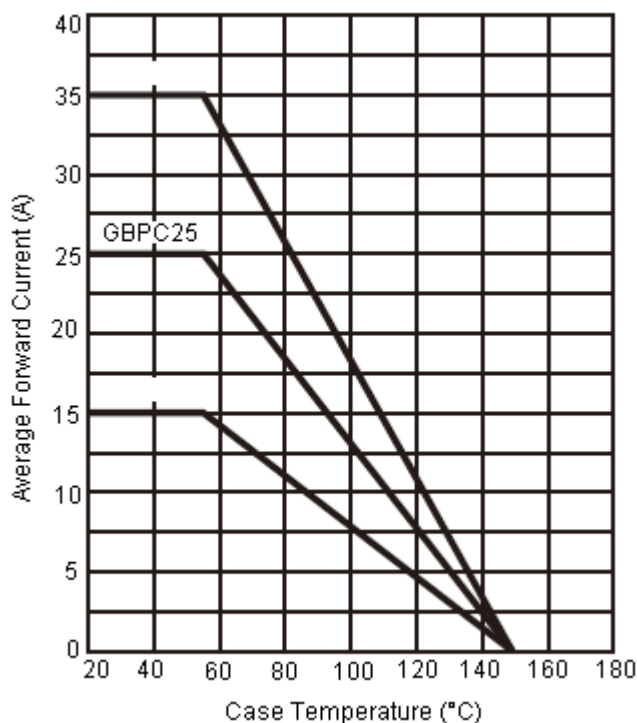
For capacitive load, derate current by 20%

Type Number	Symbol	-005	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	V
Maximum RMS Voltage	V_{RMS}	35	
Maximum DC Blocking Voltage	V_{DC}	50	
Rectified Current GBPC25	$I_F (AV)$	25	A
Single Sine-wave Superimposed GBPC25	I_{FSM}	300	
Forward Voltage Drop Per GBPC25 12.5A	V_F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element (Note 1)	I_R	5	μA
Typical Thermal Resistance	$R_{\theta JC}$	1.5	$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150	$^{\circ}C$

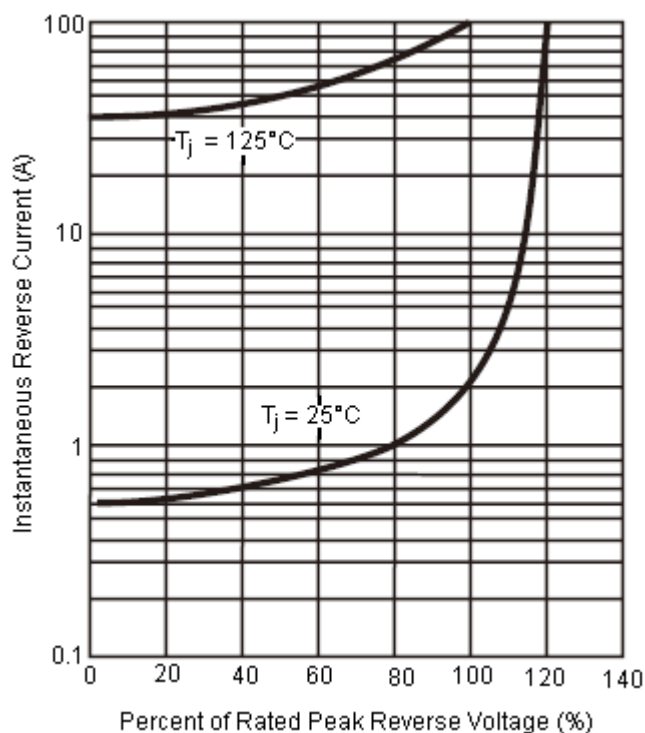
- Notes:**
1. Pulse test with $PW = 300\mu sec$, 1% duty cycle.
 2. Suffix "W" - wire lead structure/"M" - terminal location face to face.

Ratings and Characteristic Curves (GBPC25005)

Maximum Forward Current Derating Curve



Typical Reverse Characteristics Per Bridge Element

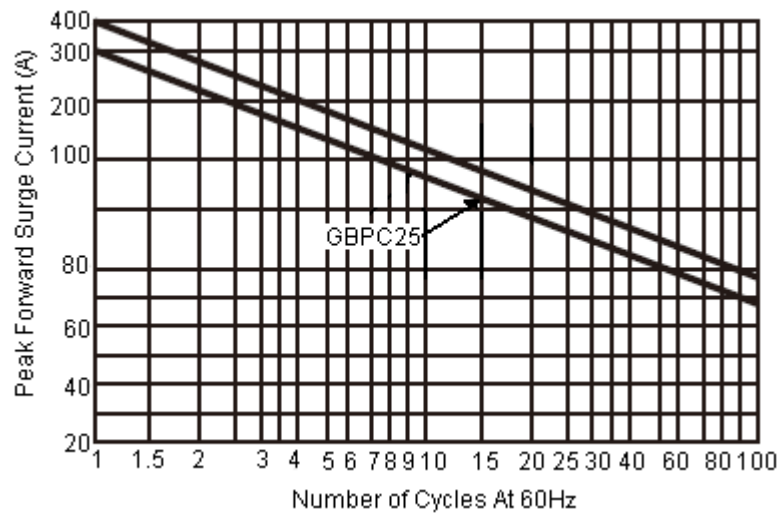


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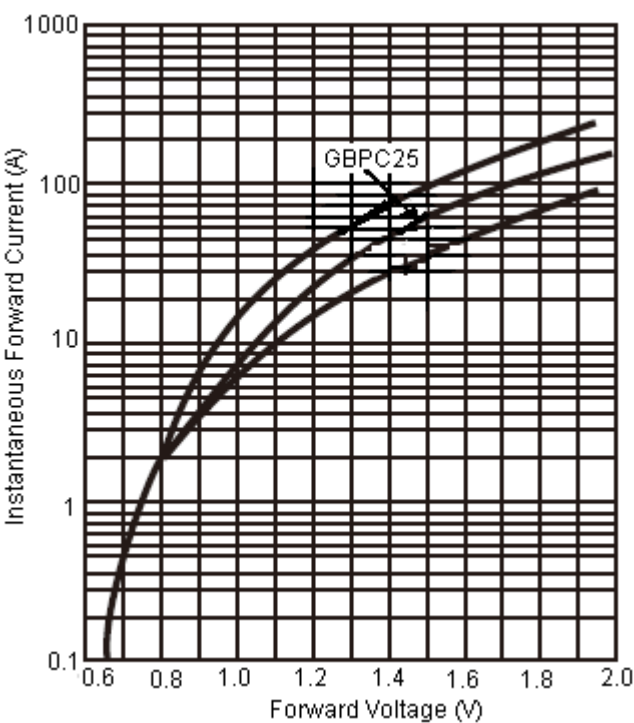


Ratings and Characteristic Curves (GBPC25005)

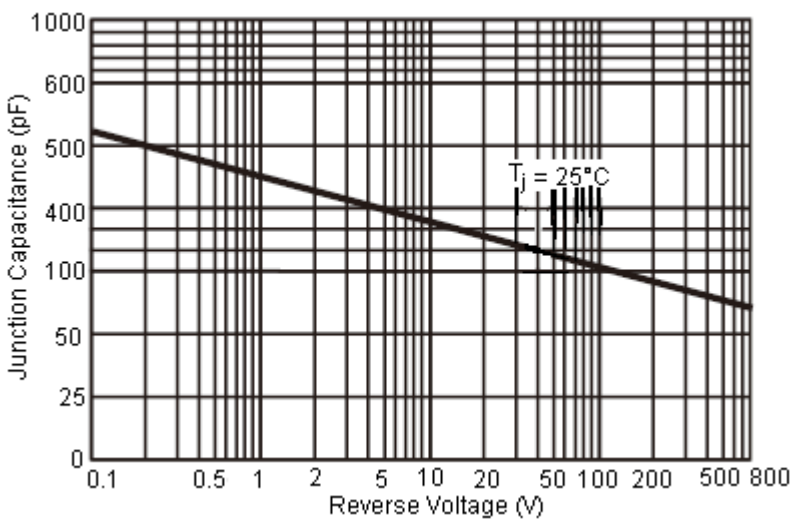
Maximum Non-Repetitive Forward Surge Current
Per Bridge Element



Typical Reverse Characteristics Per
Bridge Element



Typical Junction Capacitance



Part Number Table

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

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