

**RoHS
Compliant**

Features:

- Glass passivated junction
- Plastic material
- Integrally moulded heatsink provide very low thermal resistance for maximum heat dissipation
- Universal 4-way terminals; snap-on, wrap-around, solder or PC board mounting
- Surge overload ratings 400A
- Terminals solderable per MIL-STD-202, Method 208
- Typical IR less than 0.2 μ A
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths
- 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.

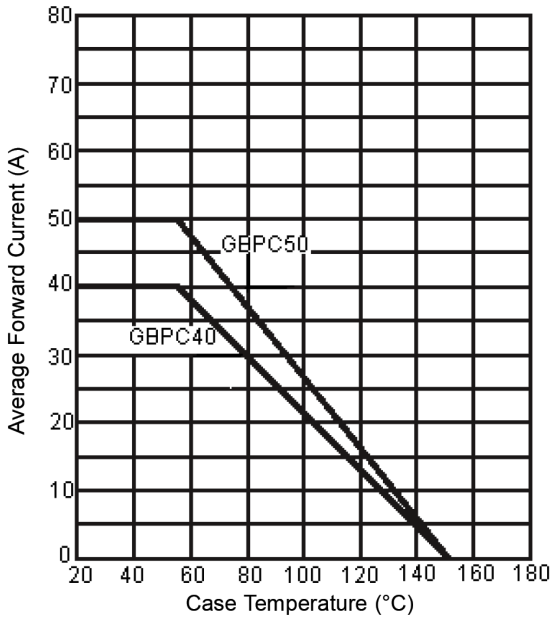
For capacitive load, derate current by 20%.

Characteristics	Symbol	GBPC5008+	GBPC5010+	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	1,000	V
Maximum RMS Voltage	V_{RMS}	560	700	
Maximum DC Blocking Voltage	V_{DC}	800	1,000	
Maximum Average Forward Rectified Current at $T_c = 55^\circ\text{C}$	$I_{(AV)}$	50		A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400		
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	V_F	1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	I_R	10		μA
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		$^\circ\text{C}$

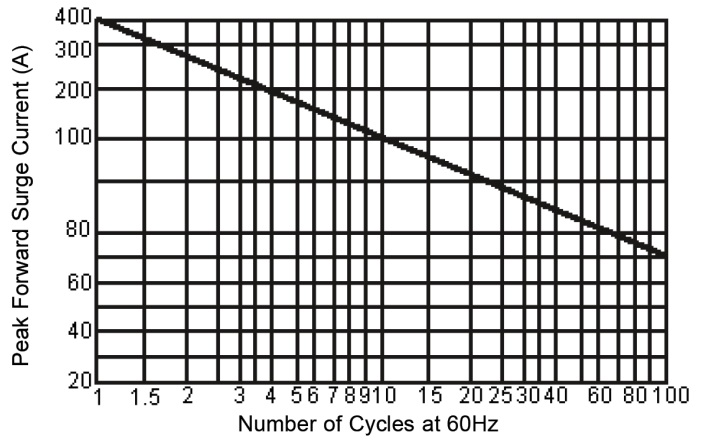
Note: 1. Thermal Resistance from Junction to Case.

Ratings and Characteristic Curves

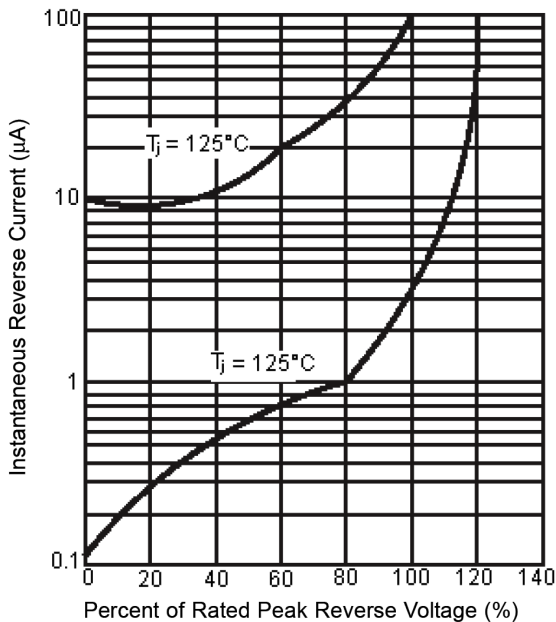
Maximum Forward Current Derating Curve



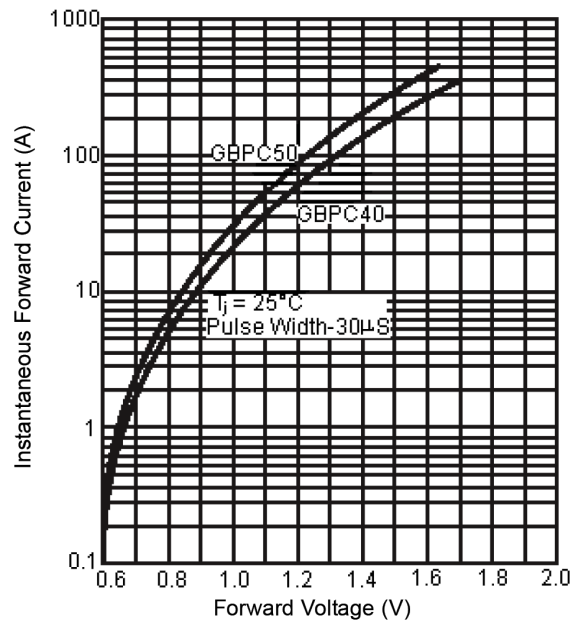
Maximum Non-Repetitive Forward Surge Current



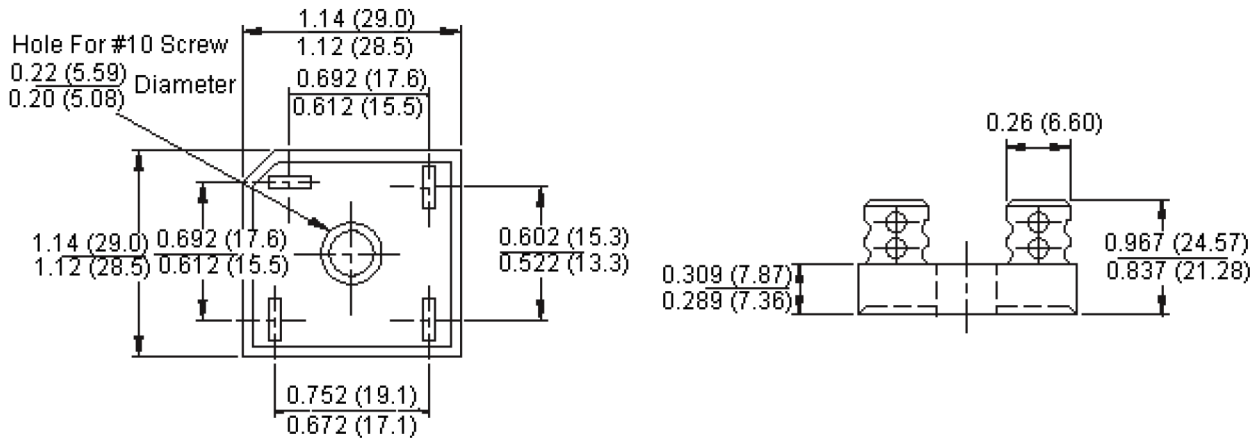
Typical Reverse Characteristics Per Bridge Element



Typical Forward Characteristics Per Bridge Element



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 50A, 800V	GBPC5008+
Bridge Rectifier, 50A, 1,000V	GBPC5010+

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.