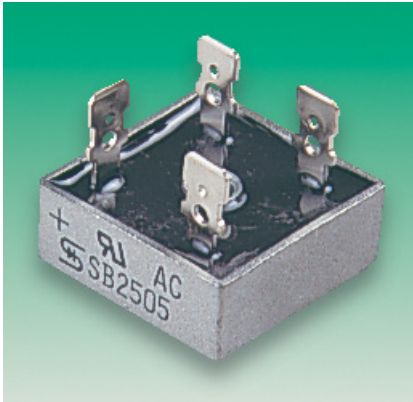


GBPC4006

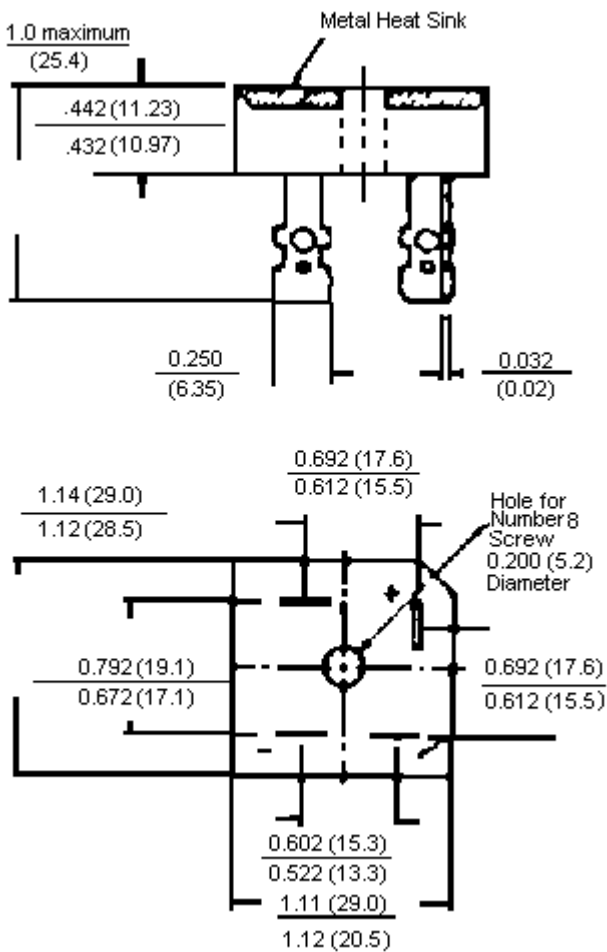
Single Phase Bridge Rectifier



Features:

- 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 rating to 400 Amperes.
- Terminals solderable per MIL-STD-202, Method 208.
- Typical IR less than 0.2 μ A.
- High temperature soldering guaranteed: 250°C/10 seconds/0.375".
- Isolated Voltage from case to terminal over 2500 volts.
- Glass passivated bridge rectifier.

GBPC



GBPC4006

Single Phase Bridge Rectifier



Maximum Ratings and Electrical Characteristics.

Rating at 25°C ambient temperature unless otherwise specified.

60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	Rating	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	Volts
Maximum RMS Voltage	V_{RMS}	420	
Maximum DC Blocking Voltage	V_{DC}	600	
Maximum Average Forward Rectified Output Current at $T_C = 55^\circ\text{C}$	$I_{(AV)}$	40.0	Amps
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	1.2 35	Volts Amps
Maximum Reverse DC Current at Rated DC Blocking Voltage Per Element	I_R	10.0	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: Thermal Resistance from Junction to Case.

Figure 1 - Typical Forward Current Derating Curve

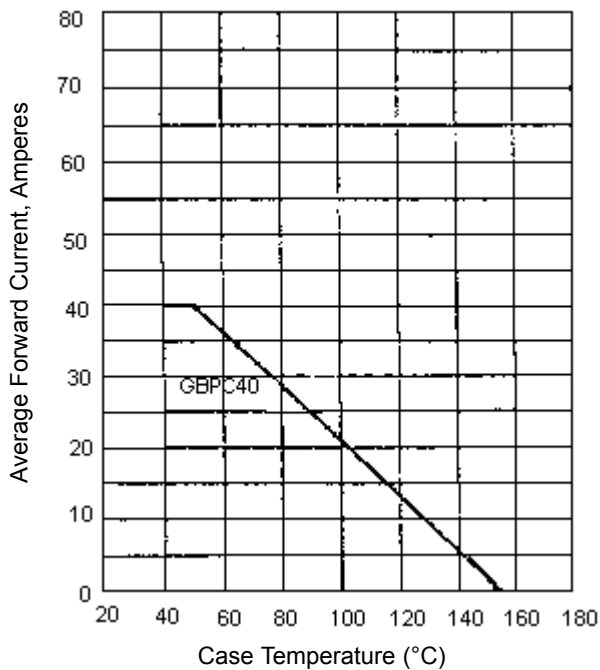


Figure 2 - Maximum Non-Repetitive Surge Current

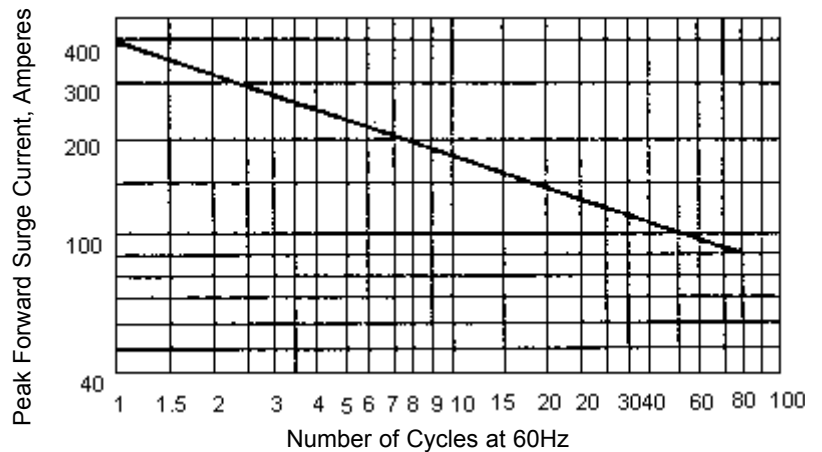


Figure 3 - Typical Reverse Characteristics

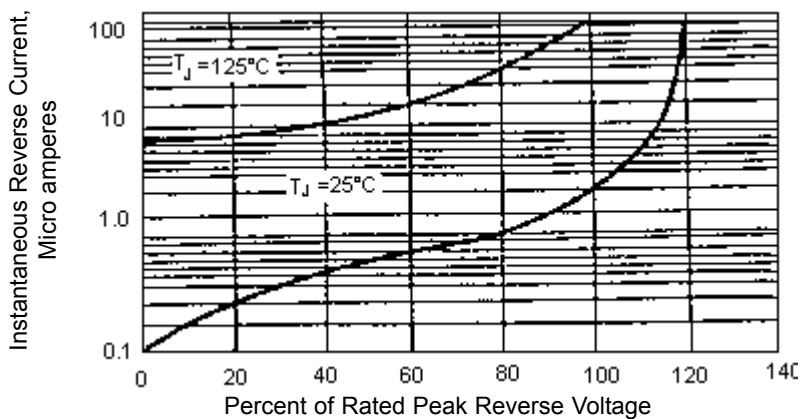
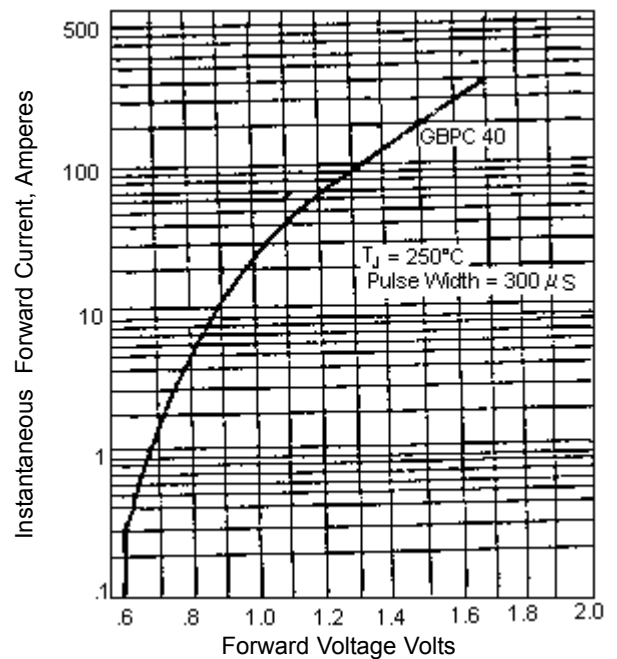


Figure 4 - Typical Forward Characteristics



GBPC4006

Single Phase Bridge Rectifier



Specifications

V_{RRM} (V)	$I_{(AV)}$ (A)	I_{FSM} (A)	I_R (A)	Part Number
600	40.0	40.0	10.0	GBPC4006

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Single Phase Bridge Rectifier



Notes:

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