

	E502650
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Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Any Mounting Position
- With Heat Sink On Top

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2.0°C/W Junction To Case
- Thermal Resistance: 15°C/W Junction To Ambient

Mechanical Data

- Mounting Torque: 8.0 in-lbs Maximum
- Mounting Hole For #10 Screw

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC25005	GBPC25005	50V	35V	50V
GBPC2501	GBPC2501	100V	70V	100V
GBPC2502	GBPC2502	200V	140V	200V
GBPC2504	GBPC2504	400V	280V	400V
GBPC2506	GBPC2506	600V	420V	600V
GBPC2508	GBPC2508	800V	560V	800V
GBPC2510	GBPC2510	1000V	700V	1000V

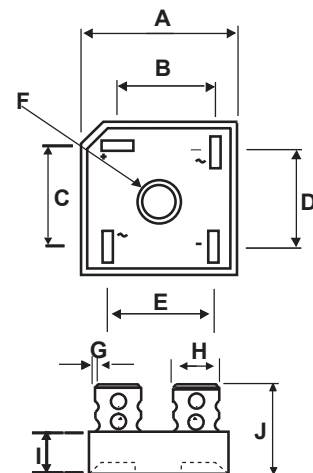
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	$T_C = 60^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 12.5\text{A Per Element}; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

25 Amp Glass Passivated Single Phase Bridge Rectifier 50 to 1000 Volts

GBPC



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1.114	1.134	28.30	28.80	
B	0.634	0.673	16.10	17.10	
C	0.634	0.673	16.10	17.10	
D	0.543	0.583	13.80	14.80	
E	0.693	0.732	17.60	18.60	
F	0.197	Nominal	5.00	Nominal	Φ
G	0.030	0.034	0.76	0.86	
H	0.244	0.256	6.20	6.50	
I	0.291	0.335	7.40	8.50	
J	0.740	0.850	18.80	21.60	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

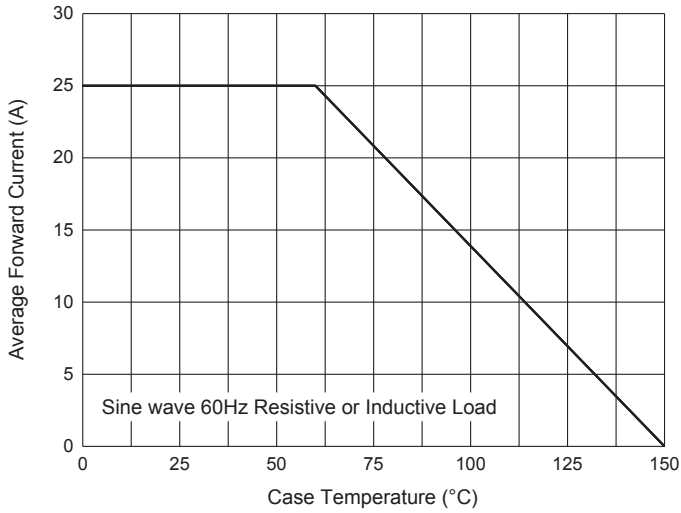


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

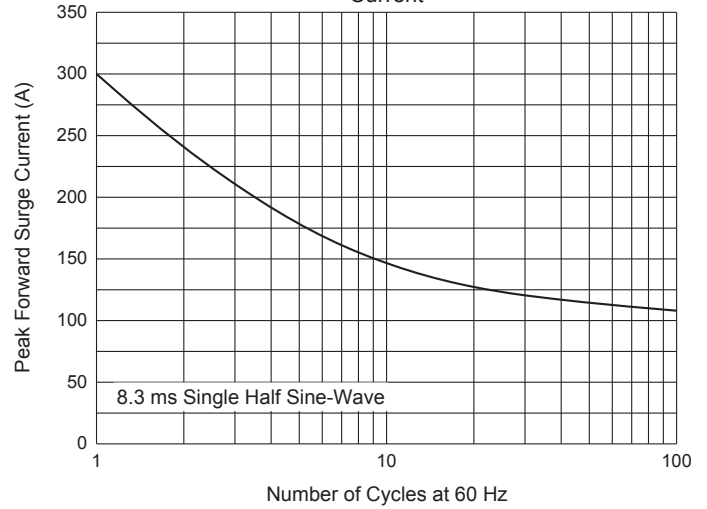


Fig. 3 - Typical Instantaneous Forward Characteristics

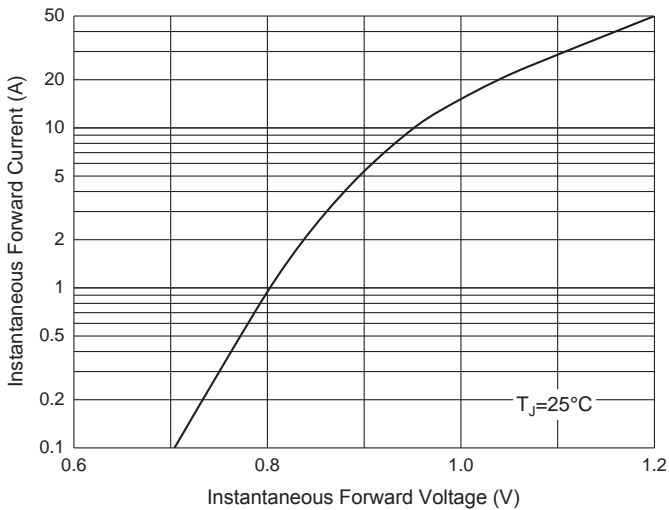


Fig. 4 - Typical Reverse Leakage Characteristics

