

	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: 1.35°C/W Junction To Case With Heatsink

Mechanical Data

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

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC25005W	GBPC25005W	50V	35V	50V
GBPC2501W	GBPC2501W	100V	70V	100V
GBPC2502W	GBPC2502W	200V	140V	200V
GBPC2504W	GBPC2504W	400V	280V	400V
GBPC2506W	GBPC2506W	600V	420V	600V
GBPC2508W	GBPC2508W	800V	560V	800V
GBPC2510W	GBPC2510W	1000V	700V	1000V

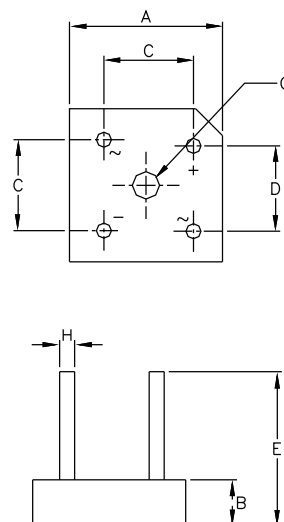
Electrical Characteristics @ 25°C Unless Otherwise Specified

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-W



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	1.110	1.142	28.20	29.00	
B	0.425	0.445	10.80	11.30	
C	0.673	0.752	17.10	19.10	
D	0.410	0.490	10.40	12.40	
E	1.180	---	30.00	---	
H	0.038	0.042	0.97	1.07	
G	0.200	0.220	5.08	5.59	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

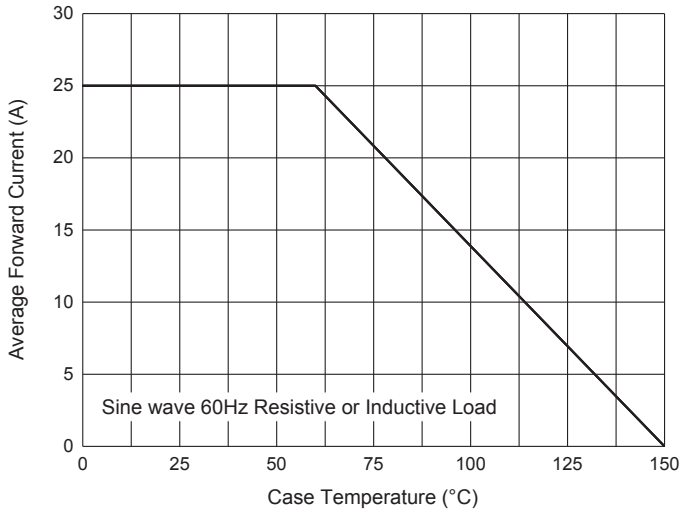


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

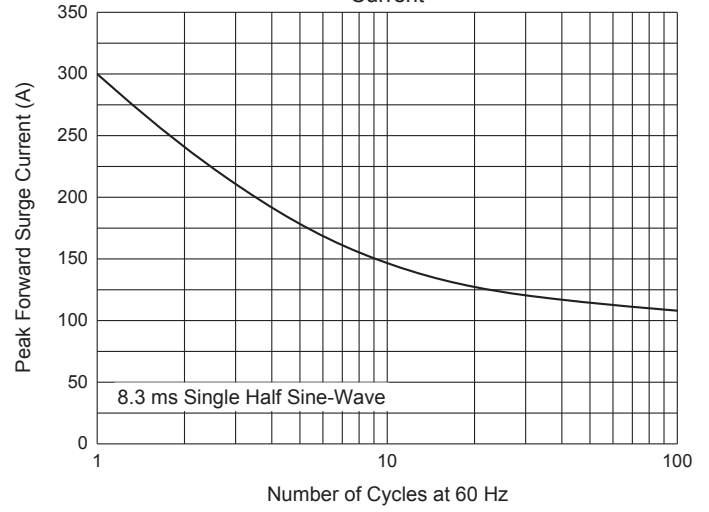


Fig. 3 - Typical Instantaneous Forward Characteristics

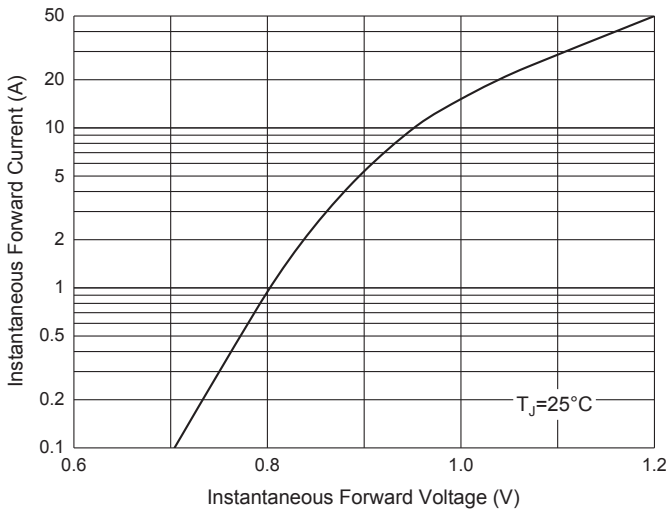
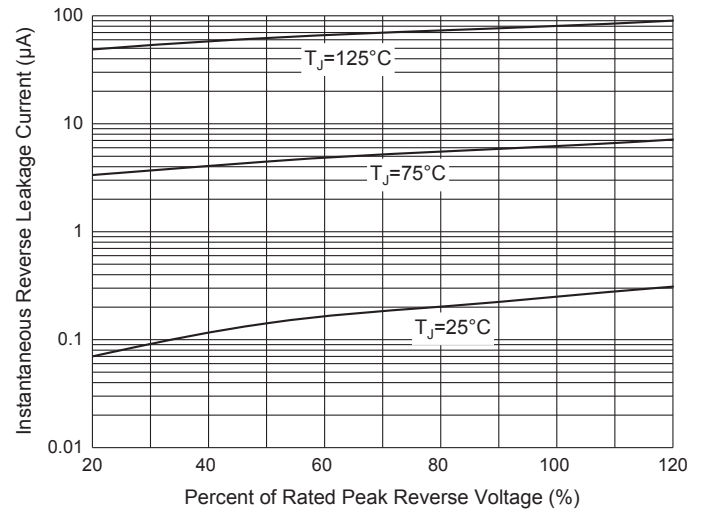


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk;400Pcs/Ctn

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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