



Micro Commercial Components

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GBPC25005 THRU GBPC2510

Features

- Glass Passivated Chip Junction
- Surge Rating Of 300 Amps
- Mounting Hole For #10 Screw
- Any Mounting Position
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog 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 </td
GBPC2506	GBPC2506	600V	420V	600V
GBPC2508	GBPC2508	800V	560V	800V
GBPC2510	GBPC2510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

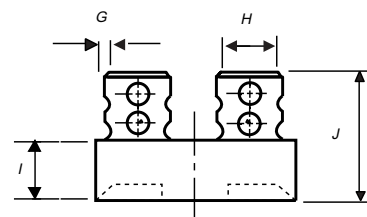
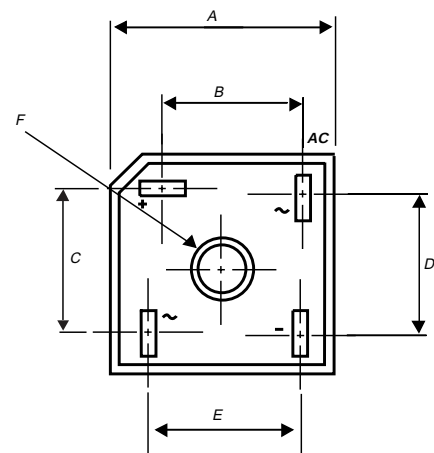
Average Forward Current	$I_{F(AV)}$	25.0A	$T_C = 60^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 12.5\text{A per element}; T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 μA 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

Notes: 1.High Temperature Solder Exemption Applied,see EU Directive Annex Notes 7.

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

GBPC

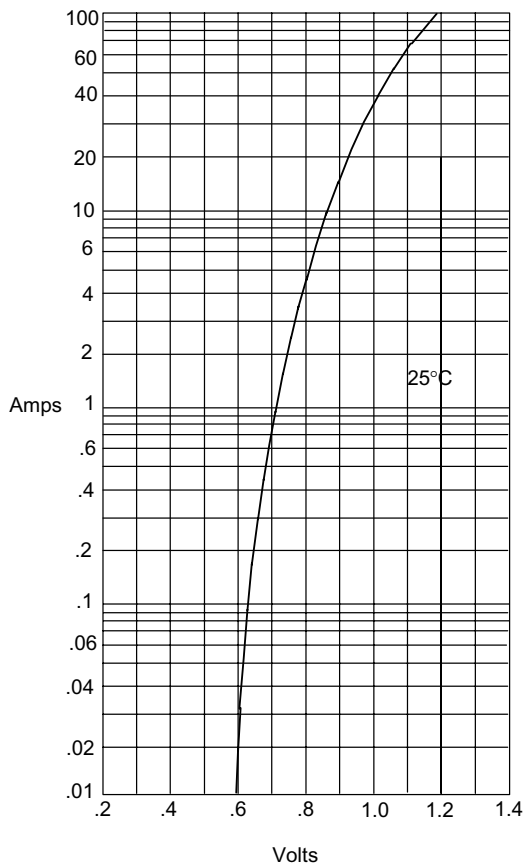


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.114	1.134	28.30	28.80	
B	.634	.673	16.10	17.10	
C	.634	.673	16.10	17.10	
D	.543	.583	13.80	14.80	
E	.693	.732	17.60	18.60	
F	.200	.220	5.08	5.59	Ø
G	.030	.034	0.76	0.86	
H	.248	.256	6.30	6.50	
I	.291	.315	7.40	8.00	
J	.740	.839	18.80	21.30	

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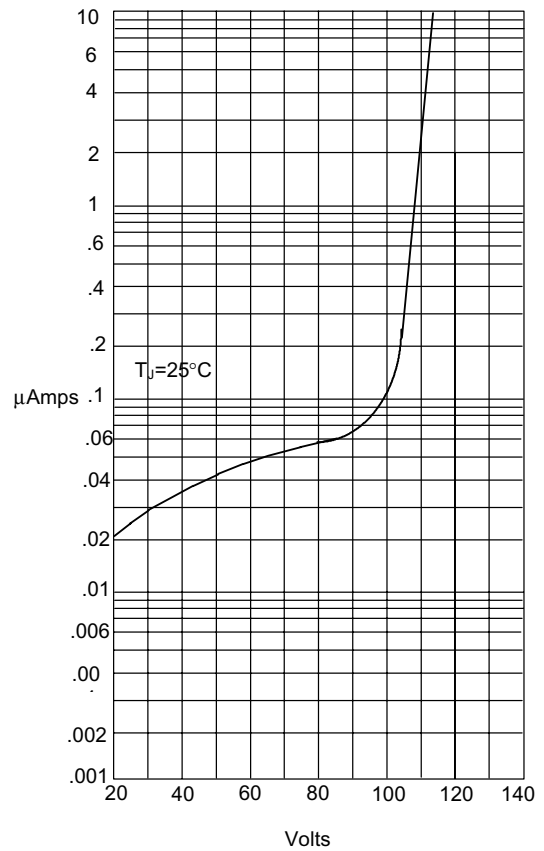
GBPC25005 thru GBPC2510

Figure 1
Typical Forward Characteristics



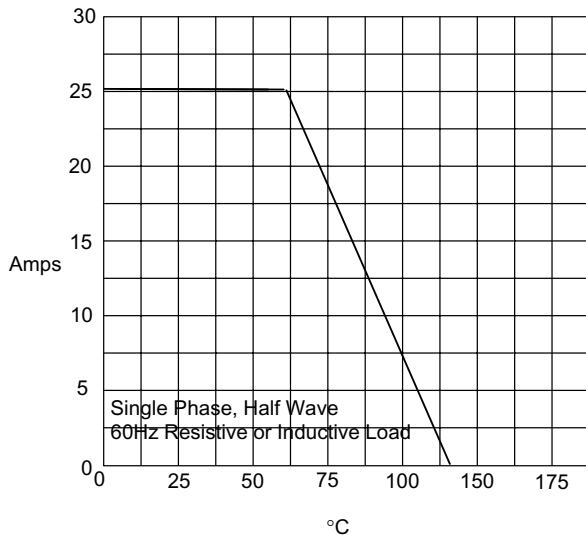
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



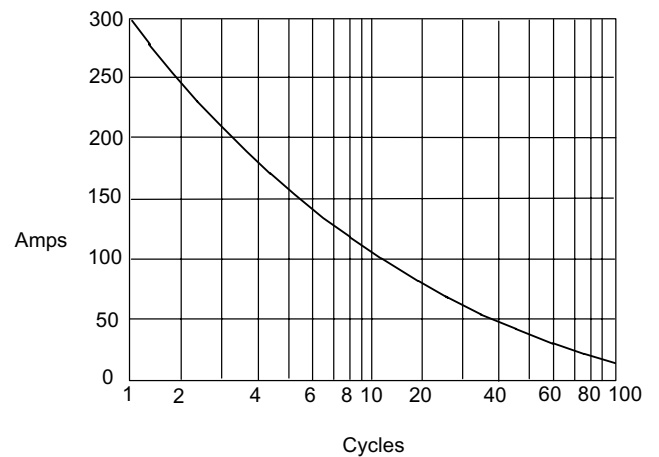
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Case Temperature - °C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;50pcs/Box

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