



Micro Commercial Components

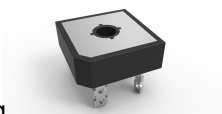


Micro Commercial Components  
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# GBPC50005 THRU GBPC5010

## Features

- Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Chip Junction
- Surge Rating Of 500 Amps
- Mounting Hole For #10 Screw
- Any Mounting Position
- With heat sink on top
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix designates RoHS Compliant. See ordering information)



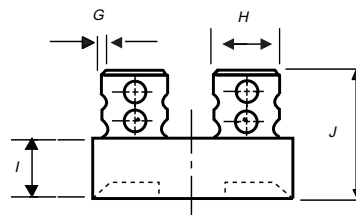
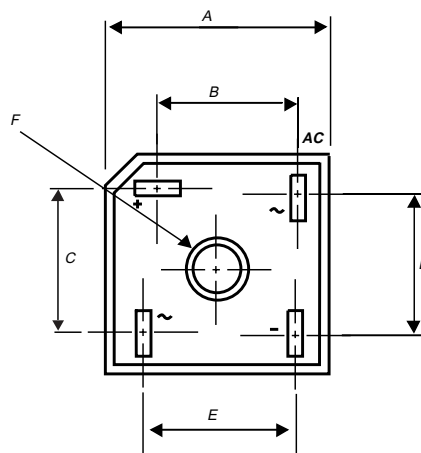
## 50 Amp Glass Passivated Single Phase Bridge Rectifier 50 to 1000 Volts

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989
- Mounting Torque: 8.0 in-lbs Maximum

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC50005	GBPC50005	50V	35V	50V
GBPC5001	GBPC5001	100V	70V	100V
GBPC5002	GBPC5002	200V	140V	200V
GBPC5004	GBPC5004	400V	280V	400V
GBPC5006	GBPC5006	600V	420V	600V
GBPC5008	GBPC5008	800V	560V	800V
GBPC5010	GBPC5010	1000V	700V	1000V

## GBPC



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50.0A	$T_C = 55^\circ\text{C}$ with heatsink
Peak Forward Surge Current	$I_{FSM}$	500A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	$V_F$	1.1V	$I_{FM} = 25\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5μA 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$

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

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	0.197 Nominal		5.00 Nominal		Ø
G	.030	.034	0.76	0.86	
H	.244	.256	6.20	6.50	
I	.291	.335	7.40	8.50	
J	.740	.850	18.80	21.60	

[www.mccsemi.com](http://www.mccsemi.com)

## 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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