



Micro Commercial Components

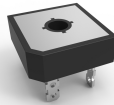


Micro Commercial Components
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GBPC35005 THRU GBPC3510

Features

- Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Chip Junction
- Surge Rating Of 400 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)



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
GBPC35005	GBPC35005	50V	35V	50V
GBPC3501	GBPC3501	100V	70V	100V
GBPC3502	GBPC3502	200V	140V	200V
GBPC3504	GBPC3504	400V	280V	400V
GBPC3506	GBPC3506	600V	420V	600V
GBPC3508	GBPC3508	800V	560V	800V
GBPC3510	GBPC3510	1000V	700V	1000V

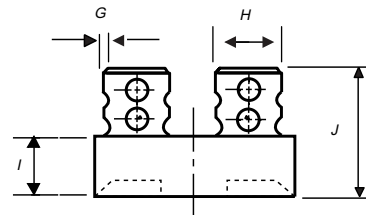
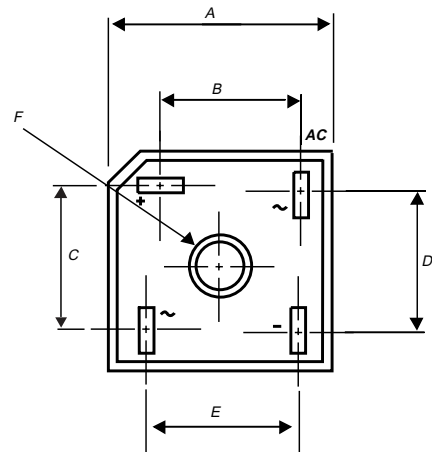
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35.0A	$T_C = 60^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 17.5\text{A}$ per element; $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5μA 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Thermal Resistance Junction to Case	R_{thjc}	1.35°C/W	

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

35 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	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

GBPC35005 thru GBPC3510

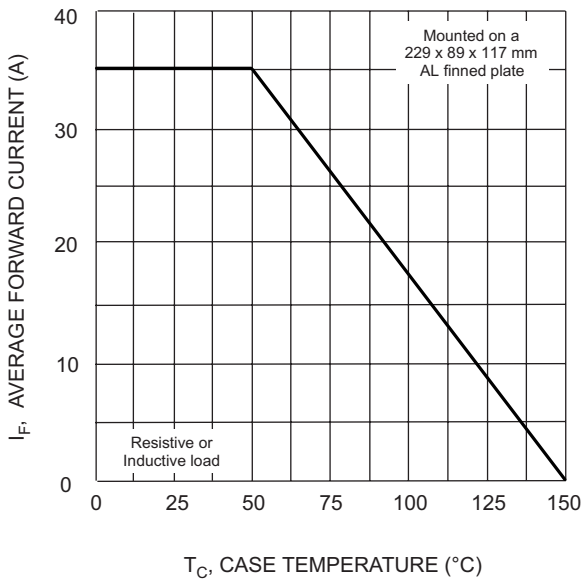


Fig. 1 Forward Current Derating Curve

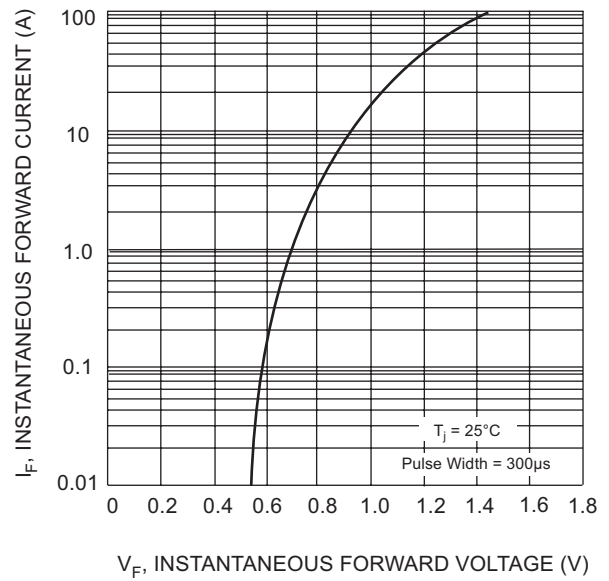


Fig. 2 Typical Forward Characteristics (per element)

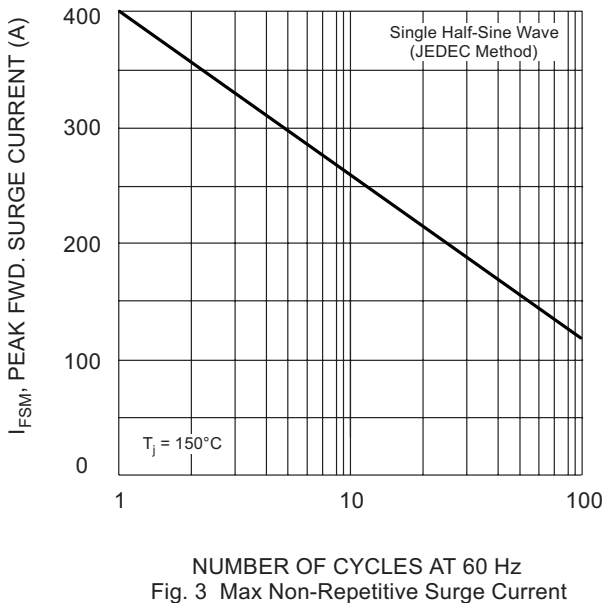


Fig. 3 Max Non-Repetitive Surge Current

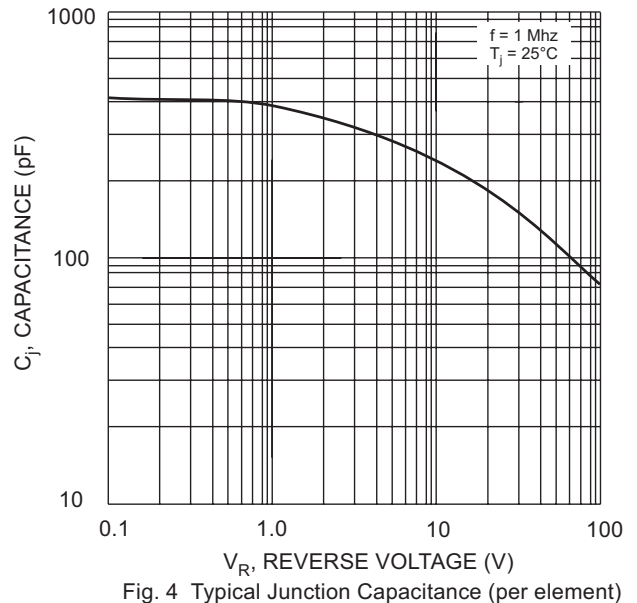


Fig. 4 Typical Junction Capacitance (per element)

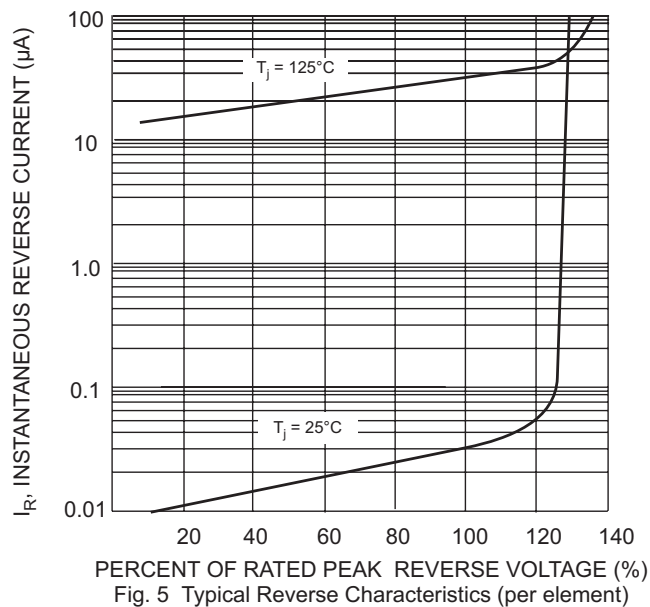


Fig. 5 Typical Reverse Characteristics (per element)

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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