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[Micro Commercial Components \(MCC\)](#)  
[GBJ3502-BP](#)

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Micro Commercial Components



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## GBJ35005 THRU GBJ3510

### Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Low forward voltage drop, high current capability.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Ideal for printed circuit board

### Maximum Ratings

- Mounting Torque: 5 in-lbs Maximum
- 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
GBJ35005	GBJ35005	50V	35V	50V
GBJ3501	GBJ3501	100V	70V	100V
GBJ3502	GBJ3502	200V	140V	200V
GBJ3504	GBJ3504	400V	280V	400V
GBJ3506	GBJ3506	600V	420V	600V
GBJ3508	GBJ3508	800V	560V	800V
GBJ3510	GBJ3510	1000V	700V	1000V

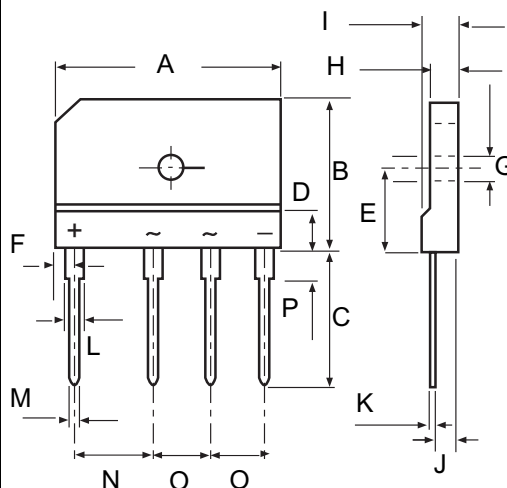
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	350A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.05V	$I_{FM} = 17.5 \text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$ 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	$R_{\theta JC}$	0.6°C/W	
Typical Junction Capacitance	$C_J$	85 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

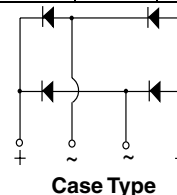
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

## 35 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

GBJ



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.170	1.190	29.70	30.30	
B	.780	.800	19.70	20.30	
C	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
E	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
H	.130	.150	3.40	3.80	
I	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.030	0.60	0.80	
L	.080	.090	2.00	2.40	
M	.040	.040	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.150	.170	3.80	4.20	



## RATING AND CHARACTERISTIC CURVES GBJ35005 thru GBJ3510

FIG.1 - FORWARD CURRENT DERATING CURVE

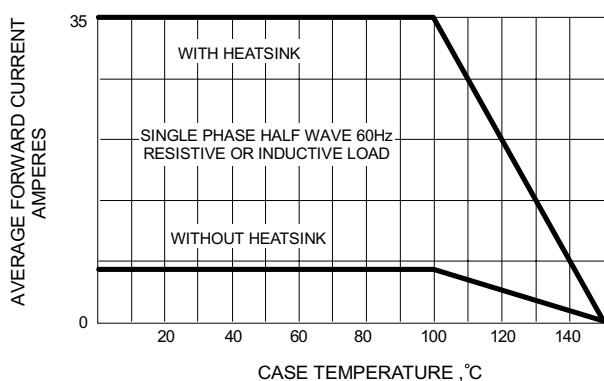


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

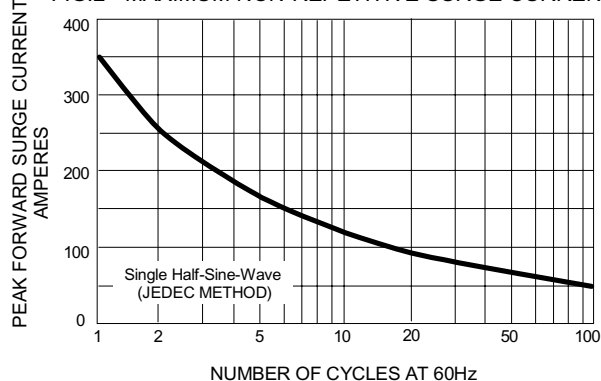


FIG.3 - TYPICAL JUNCTION CAPACITANCE

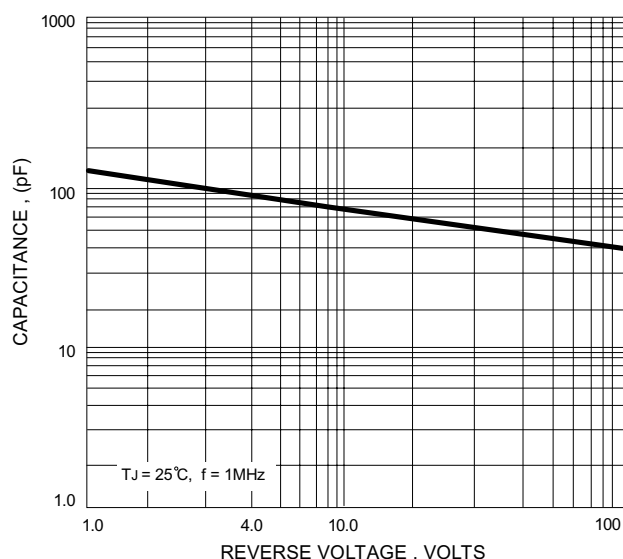


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

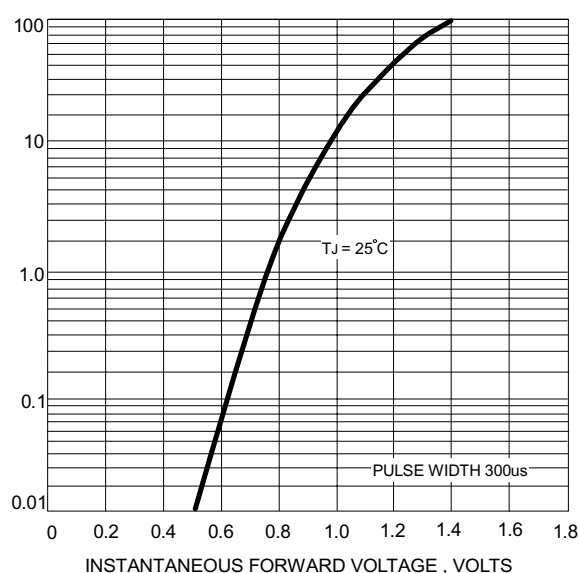
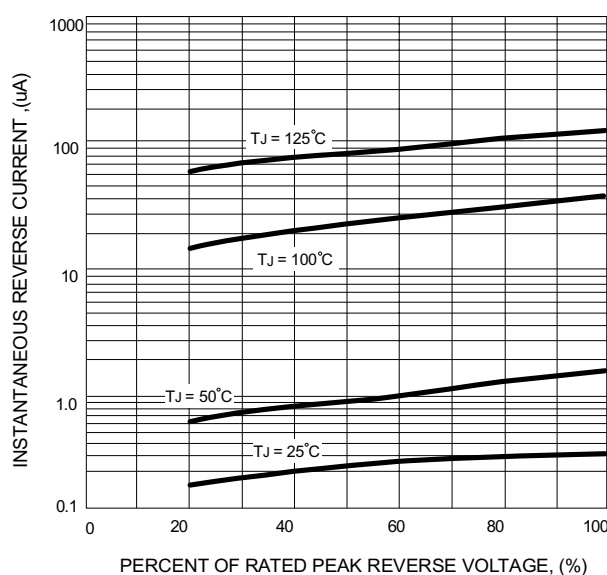


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





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## Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1.5K/Ctn

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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