



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# 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 Torgue: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

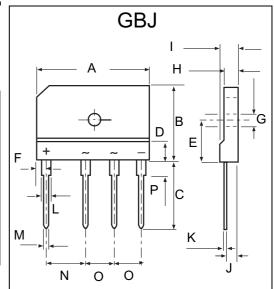
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
GBJ35005	GBJ35005	50V	35V	50V
GBJ3501	GBJ3501	100V	70V	100V
GBJ3502	GBJ3502	200V	140V	200V
GBJ3504	GBJ3504	400V	280V	400V
GBJ3506	GBJ3506	600V	420V	600V
GBJ3508	GBJ3508	800V	560V	V008
GBJ3510	GBJ3510	1000V	700V	1000V

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

Average Forward	$I_{F(AV)}$	35 A	Tc = 100°C
Current			
Peak Forward Surge	$I_{FSM}$	350A	8.3ms, half sine
Current			
Maximum			I <sub>FM</sub> = 17.5 A
Instantaneous	$V_{F}$	1.05V	1FM = 17.3 A
Forward Voltage			$T_J = 25^{\circ}C$
Maximum DC			
Reverse Current At	$I_R$	10 μ <b>A</b>	T <sub>J</sub> = 25°C
Rated DC Blocking		500uA	T <sub>J</sub> = 125°C
Voltage			
Typical thermal			
resistance	$R_{\Theta JC}$	0.6°C/W	
Typical Junction	CJ	85 pF	Measured at
Capacitance		•	1.0MHz, V <sub>R</sub> =4.0V

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

# 35 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

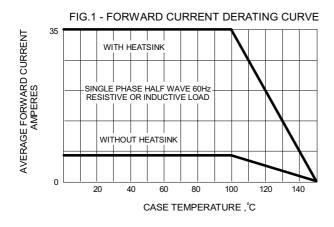


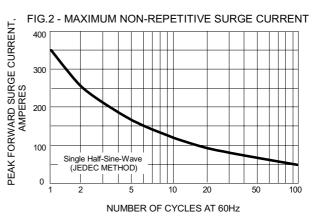
	DIMENSIONS				
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.170	1.190	29.70	30.30	
В	.780	.800	19.70	20.30	
С	.670	.710	17.00	18.00	
D	.019	.019	4.70	4.90	
Е	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
Н	.130	.150	3.40	3.80	
- 1	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.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	
0	.290	.300	7.30	7.70	
Р	.150	.170	3.80	4.20	
Case Type					



## RATING AND CHARACTERISTIC CURVES GBJ35005 thru GBJ3510

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OAPACITANCE. (PF)

10.0

REVERSE VOLTAGE, VOLTS

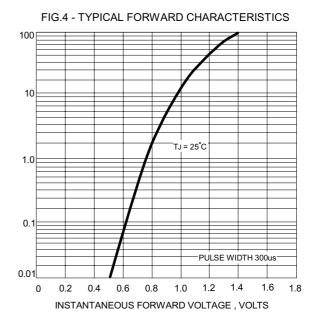
TJ = 25°C, f = 1MHz

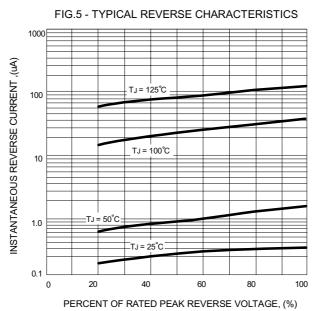
4.0

1.0

1.0

FIG.3 - TYPICAL JUNCTION CAPACITANCE





100



#### **Micro Commercial Components**

#### **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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