

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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**GBJ20005 THRU GBJ2010** 

### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- UL Recognized File # E165989
- Halogen free available upon request by adding suffix "-HF"

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting torque: 5in-lbs.

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
GBJ20005	GBJ20005	50V	35V	50V
GBJ2001	GBJ2001	100V	70V	100V
GBJ2002	GBJ2002	200V	140V	200V
GBJ2004	GBJ2004	400V	280V	400V
GBJ2006	GBJ2006	600V	420V	600V
GBJ2008	GBJ2008	800V	560V	800V
GBJ2010	GBJ2010	1000V	700V	1000V

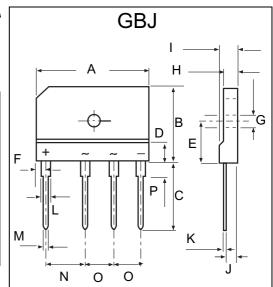
### Electrical Characteristics @ 25°C Unless Otherwise Specified

I <sub>F(AV)</sub>	20 A	Tc = 100°C
$I_{FSM}$	240A	8.3ms, half sine
		I <sub>FM</sub> = 10.0 A
$V_{F}$	1.05V	1FM - 10.0 A
orward Voltage		$T_J = 25^{\circ}C$
$I_R$	10 μ <b>A</b>	T <sub>J</sub> = 25°C
	500uA	T <sub>J</sub> = 125°C
$R_{\Theta JC}$	0.8°C/W	
CJ	60 pF	Measured at
		1.0MHz, $V_R$ =4.0V
	I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub>	I <sub>FSM</sub> 240A  V <sub>F</sub> 1.05V  I <sub>R</sub> 10 μA 500uA  R <sub>ΘJC</sub> 0.8°C/W

<sup>\*</sup>Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

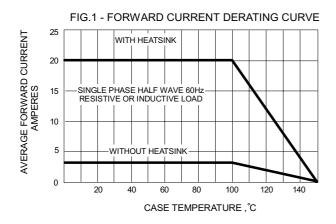
## **20 Amp Glass Passivated Bridge Rectifier** 50 to 1000 Volts

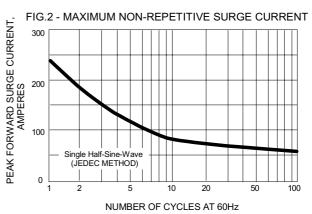


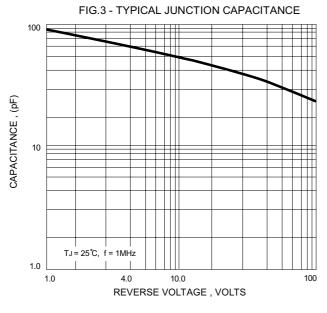
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	1.170	1.190	29.70	30.30		
В	.780	.800	19.70	20.30		
С	.670	.710	17.00	18.00		
D	.019	.019	4.70	4.90		
Е	.430	.440	10.80	11.20		
F	.090	.110	2.30	2.70		
G	.120	.130	3.10	3.40		
Н	.130	.150	3.40	3.80		
	.170	.190	4.40	4.80		
J	.100	.110	2.50	2.90		
K	.020	.030	0.60	0.80		
L	.080	.090	2.00	2.40		
М	.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		

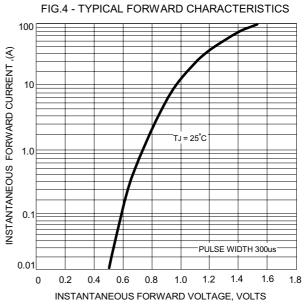


# RATING AND CHARACTERISTIC CURVES GBJ20005 thru GBJ2010

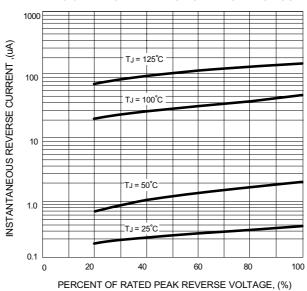














### **Ordering Information:**

Device	Packing
Part Number-BP	Bulk: 750pcs/Box

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

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