

**M·C·C·**

Micro Commercial Components



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**GBJ10005**  
**THRU**  
**GBJ1010**

## Features

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

## Maximum Ratings

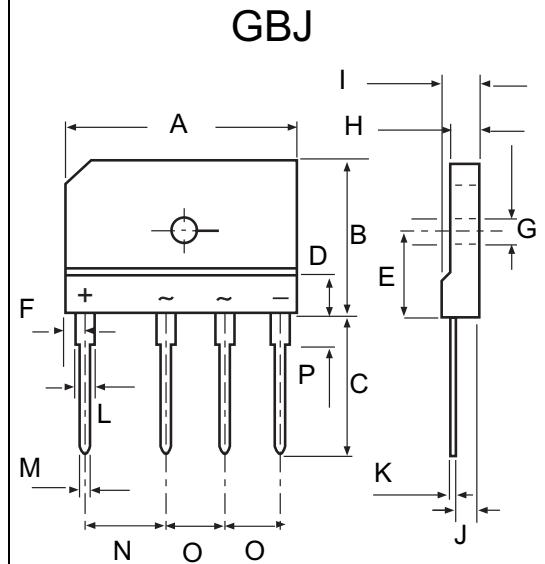
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989; Mounting Torque: 5in-lbs.

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ1005	GBJ1005	50V	35V	50V
GBJ1001	GBJ1001	100V	70V	100V
GBJ1002	GBJ1002	200V	140V	200V
GBJ1004	GBJ1004	400V	280V	400V
GBJ1006	GBJ1006	600V	420V	600V
GBJ1008	GBJ1008	800V	560V	800V
GBJ1010	GBJ1010	1000V	700V	1000V

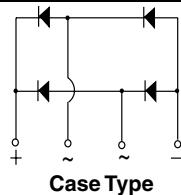
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_c = 110^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.05V	$I_{FM} = 5.0\text{A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	$10 \mu\text{A}$ $500\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	$R_{GJC}$	$1.4^\circ\text{C}/\text{W}$	
Typical Junction Capacitance	$C_J$	55 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7  
2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%



DIMENSIONS					NOTE	
DIM	INCHES		MM			
	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	.190	.190	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		



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FIG.1 - FORWARD CURRENT DERATING CURVE

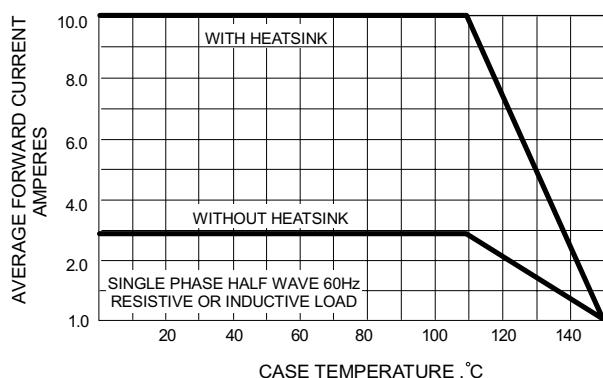


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

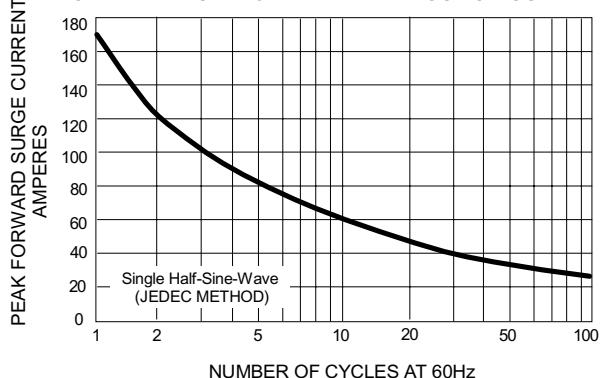


FIG.3 - TYPICAL JUNCTION CAPACITANCE

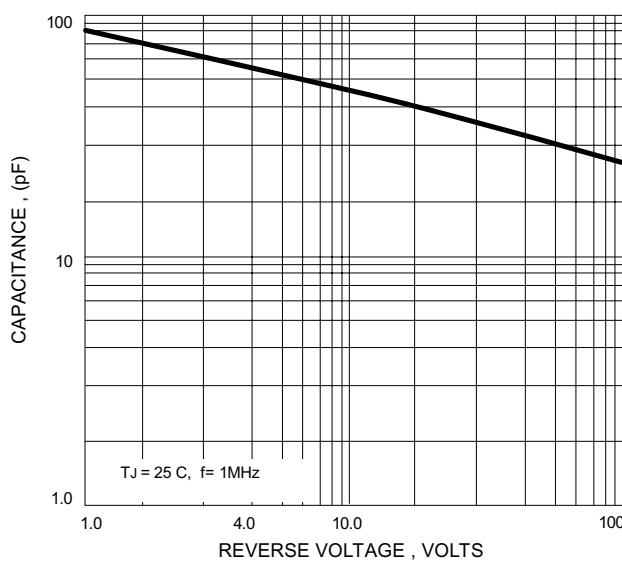


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

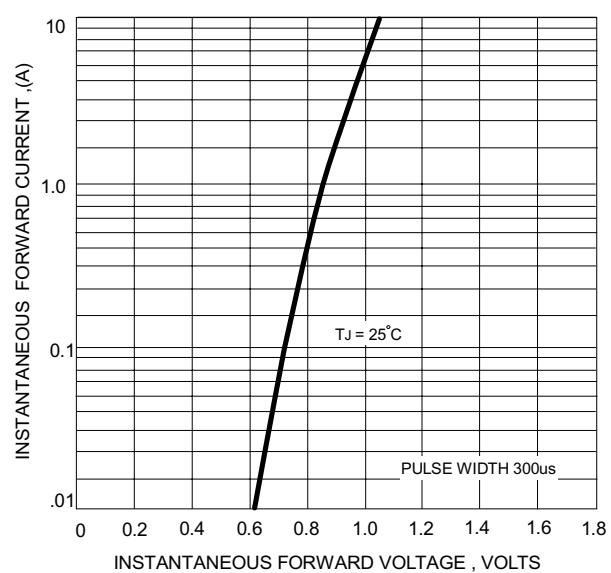
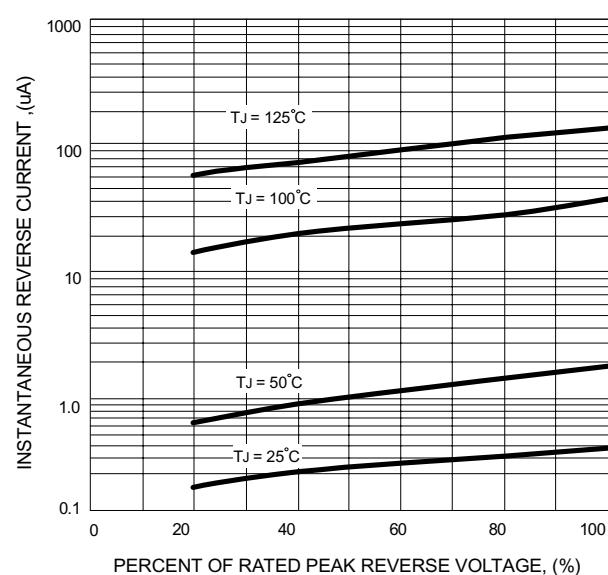


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



<sup>TM</sup>

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## Ordering Information :

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

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