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Part Number	GBJ1001
product family	BRIDGE RECTIFIERS
package type	GBJ
VRM(PRV)	100V
Ifsm	170A
IF(AV)	10A
@Vf	1.05V
@If	5.0A
Trr	
IR	10μA
@VR	100V
Package Qty	Tube : 15pcs/Tube, 750pcs/Box, 1.5K/Ctn;
<p>This product is listed under the following categories where you may find similar products:</p> <p><a href="#">Diodes</a></p> <p><a href="#">Bridge Rectifiers</a></p>	





Micro Commercial Components

# GBJ10005 THRU GBJ1010

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

### Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 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

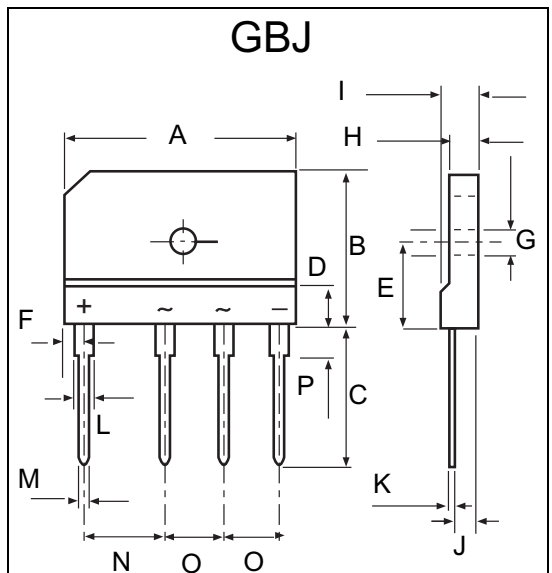
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ10005	---	50V	35V	50V
GBJ1001	---	100V	70V	100V
GBJ1002	---	200V	140V	200V
GBJ1004	---	400V	280V	400V
GBJ1006	---	600V	420V </td <td>600V</td>	600V
GBJ1008	---	800V	560V	800V
GBJ1010	---	1000V	700V	1000V

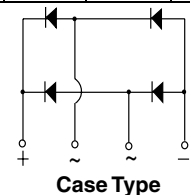
### Electrical Characteristics @ 25°C Unless Otherwise Specified

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	$I_{FM} = 5.0A$ $T_J = 25^\circ\text{C}$
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	$R_{\theta JC}$	1.4°C/W	
Typical Junction Capacitance	$C_J$	55 pF	Measured at 1.0MHz, $V_R=4.0V$

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



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	





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## Ordering Information

Device	Packing
(Part Number)-BP	Bulk;15pcs/Tube

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