



Micro Commercial Components



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# GBJ6005 THRU GBJ610

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

### Features

- Halogen free available upon request by adding suffix "-HF"
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

### Maximum Ratings

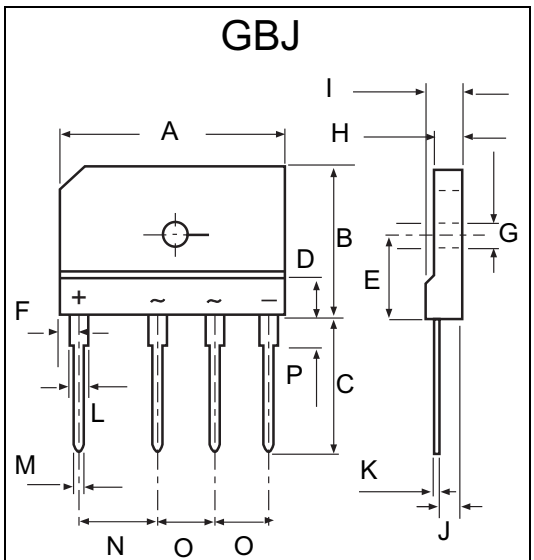
- Mounting Torque: 5.0 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ6005	GBJ6005	50V	35V	50V
GBJ601	GBJ601	100V	70V	100V
GBJ602	GBJ602	200V	140V	200V
GBJ604	GBJ604	400V	280V	400V
GBJ606	GBJ606	600V	420V	600V
GBJ608	GBJ608	800V	560V	800V
GBJ610	GBJ610	1000V	700V	1000V

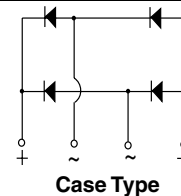
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	6 A	$T_c = 110^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 3.0A$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5 $\mu\text{A}$ 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	$R_{\theta JC}$	1.8°C/W	
Typical Junction Capacitance	$C_J$	55 pF	Measured at 1.0MHz, $V_R=4.0V$

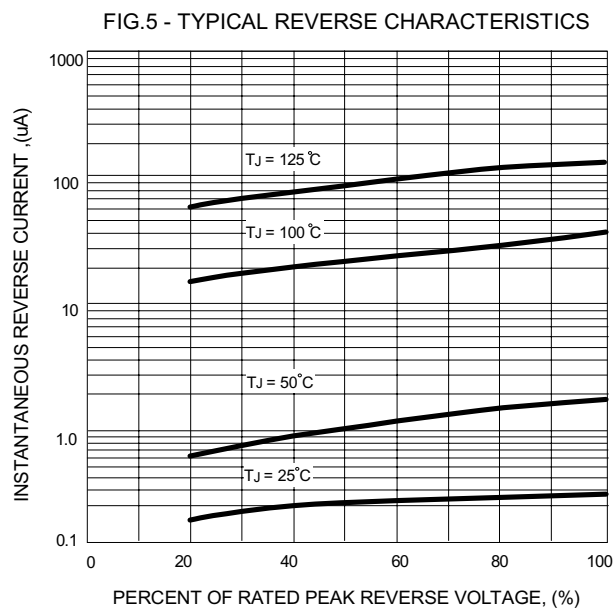
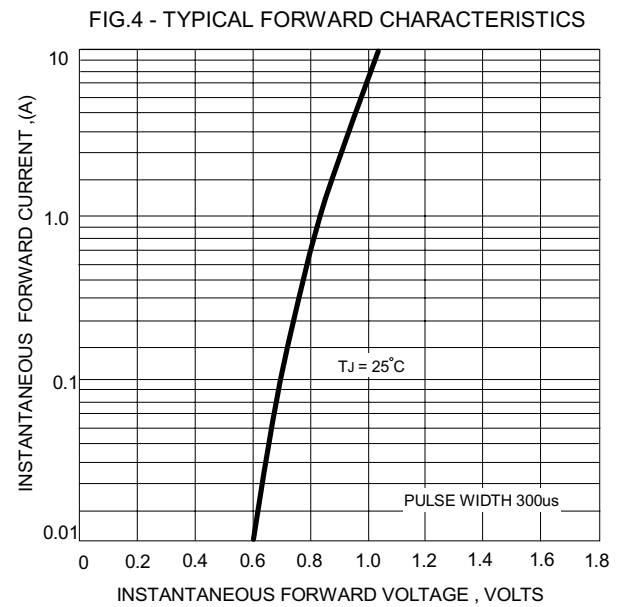
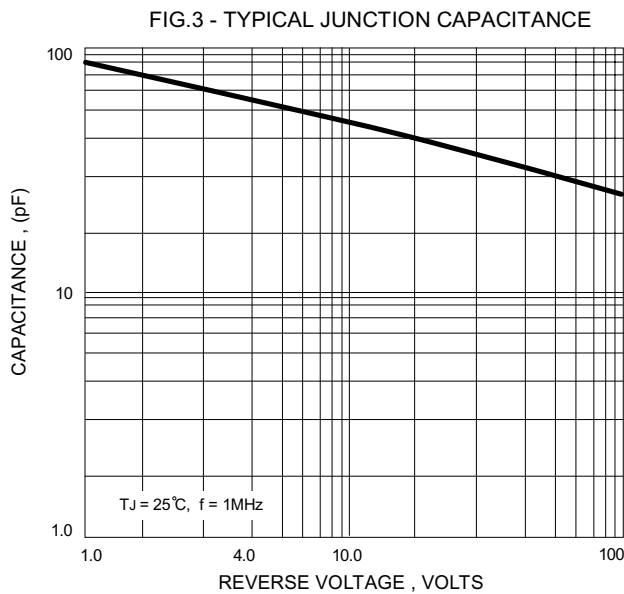
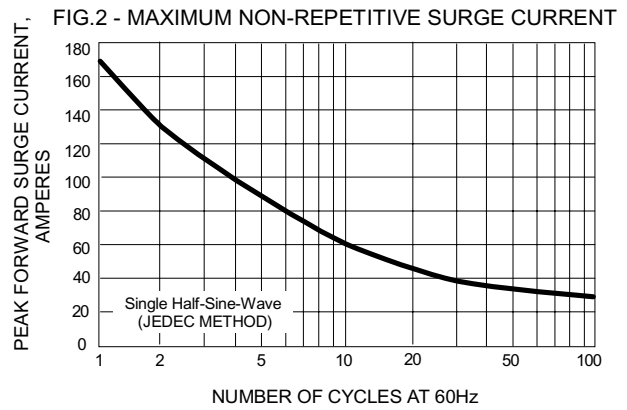
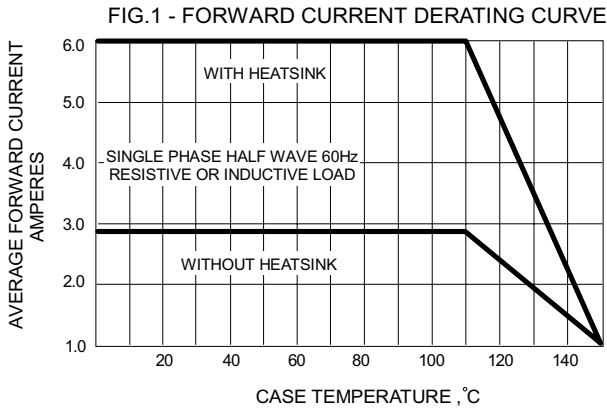
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



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; 1.5 K/ Ctn

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

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