



Micro Commercial Components



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# GBJ50005 THRU GBJ5010

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

### Features

- 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

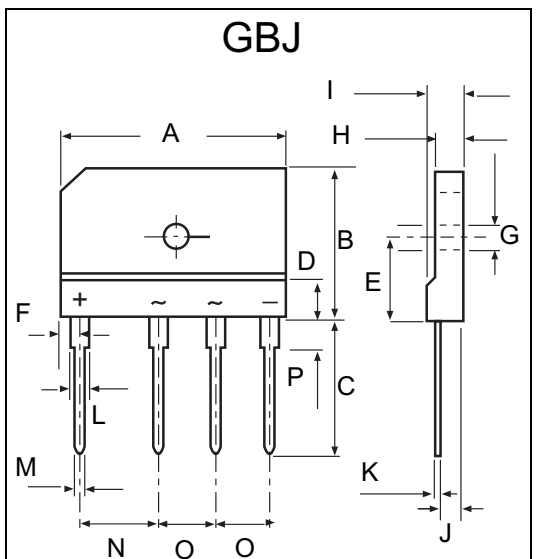
- Mounting Torque: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ50005	GBJ50005	50V	35V	50V
GBJ5001	GBJ5001	100V	70V	100V
GBJ5002	GBJ5002	200V	140V	200V
GBJ5004	GBJ5004	400V	280V	400V
GBJ5006	GBJ5006	600V	420V	600V
GBJ5008	GBJ5008	800V	560V	800V
GBJ5010	GBJ5010	1000V	700V	1000V

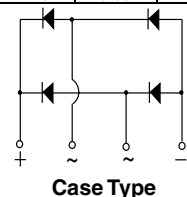
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms, sine wave
Maximum Instantaneous Forward Voltage	$V_F$	1.1V	$I_{FM} = 25\text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10 $\mu\text{A}$	$T_J = 25^\circ\text{C}$
Typical thermal resistance	$R_{thJC}$	0.8°C/W	

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	

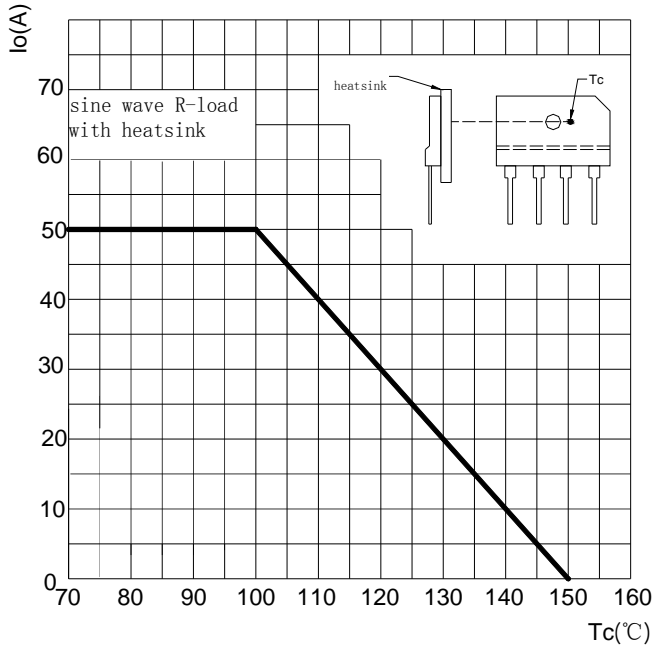


Case Type

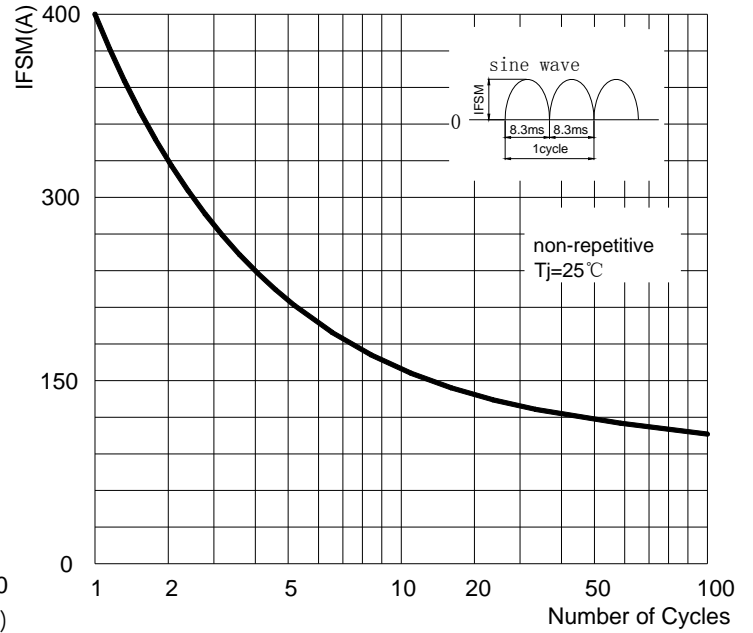
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**RATING AND CHARACTERISTIC CURVES  
GBJ50005 thru GBJ5010**

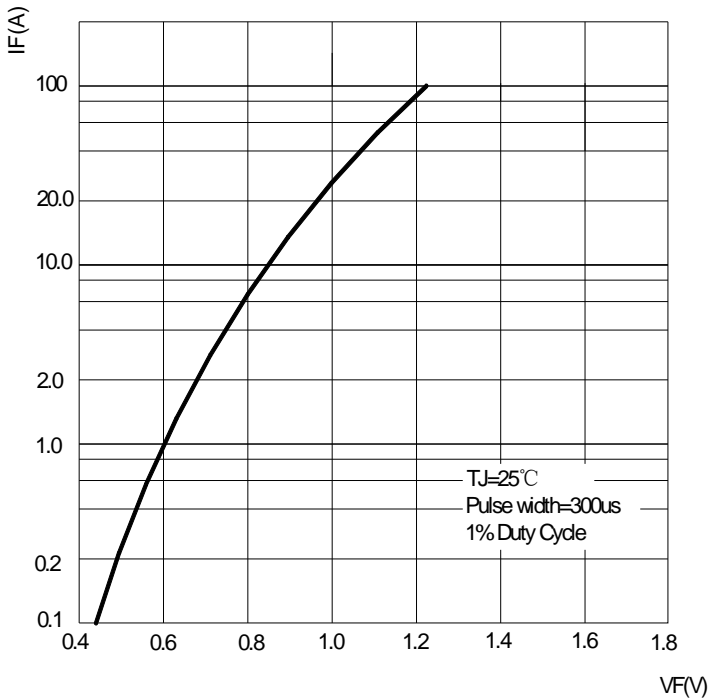
**FIG1:Io-Tc Curve**



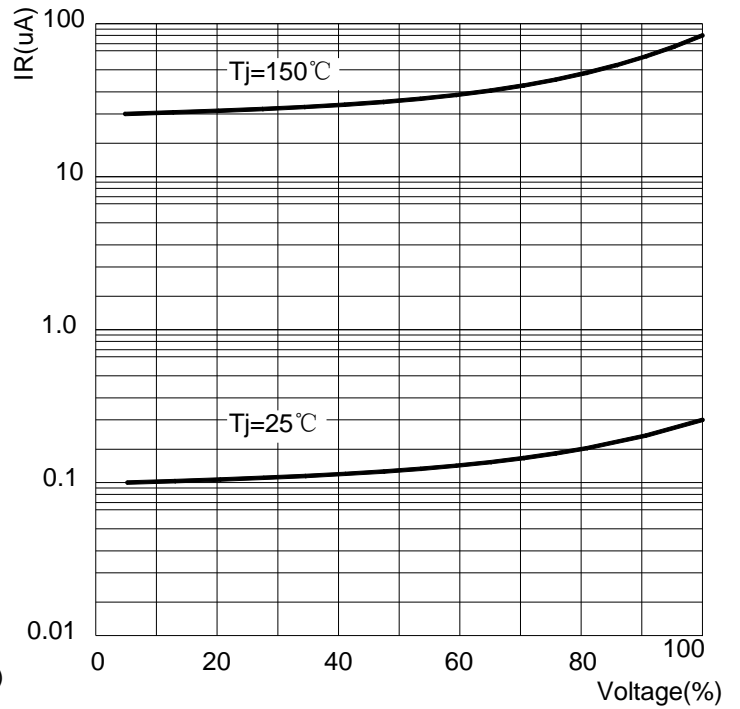
**FIG2:Surge Forward Current Capability**



**FIG3: TYPICAL FORWARD CHARACTERISTICS**



**FIG4:Typical Reverse Characteristics**





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### Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1.5K/Ctn

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- Консультации по применению компонента;
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- Защита от снятия компонента с производства.



#### Как с нами связаться

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