



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 (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low forward voltage drop, high current capability.
- Ideal for printed circuit board
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

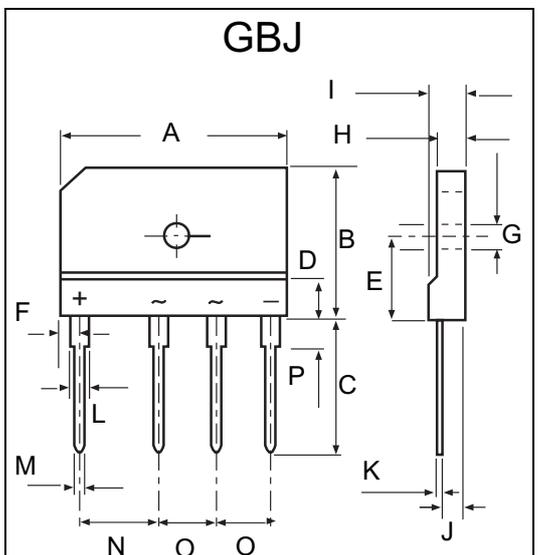
- Mounting Torque: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989
- High Case Dielectric Strength of 2500 V_{RMS}

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

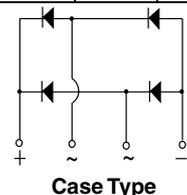
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	1.0V	$I_{FM} = 25\text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_J = 25^\circ\text{C}$
Typical thermal resistance	R_{thJC}	0.8°C/W	

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



DIM	DIMENSIONS				NOTE
	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	.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

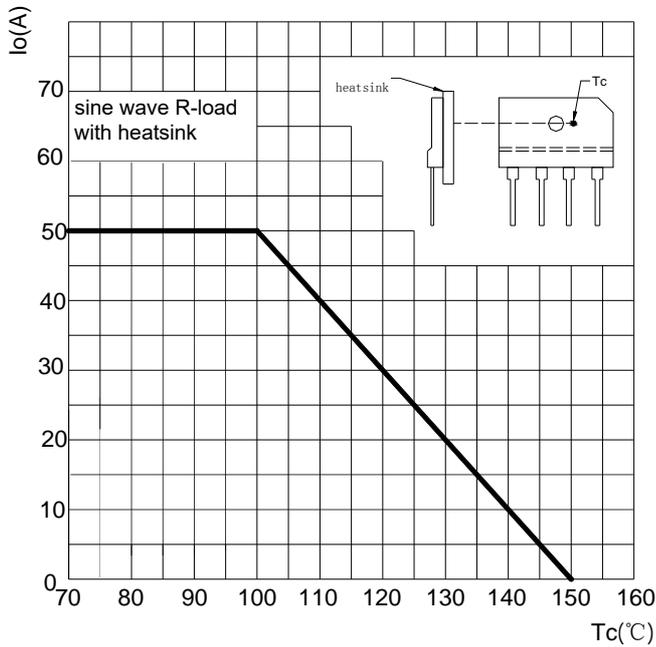


FIG2:Surge Forward Current Capability

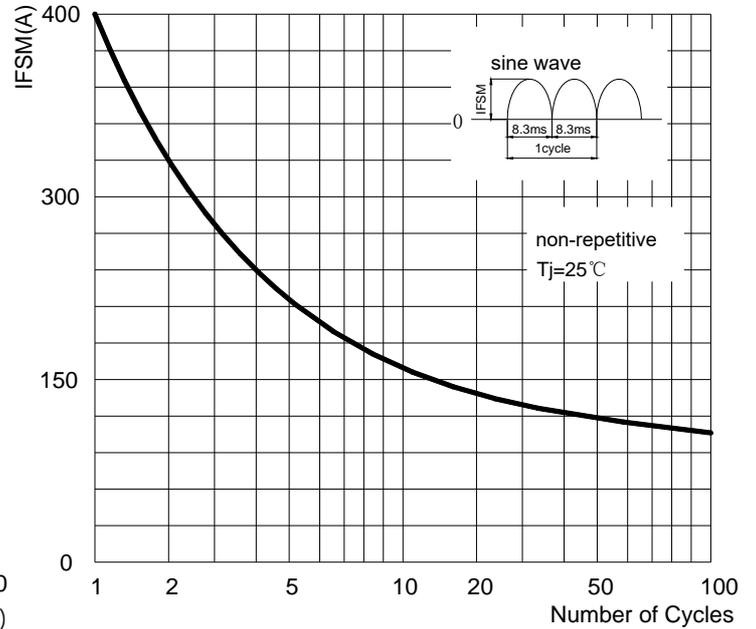


FIG3: TYPICAL FORWARD CHARACTERISTICS

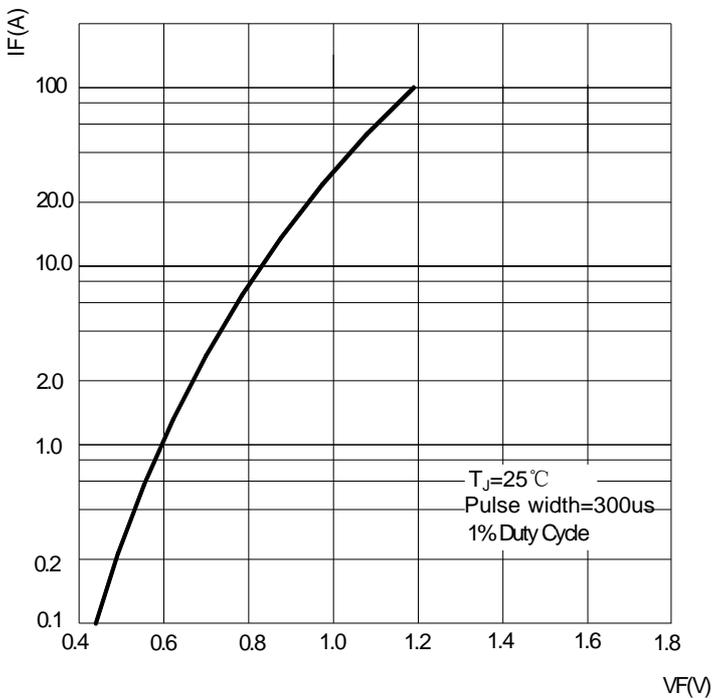
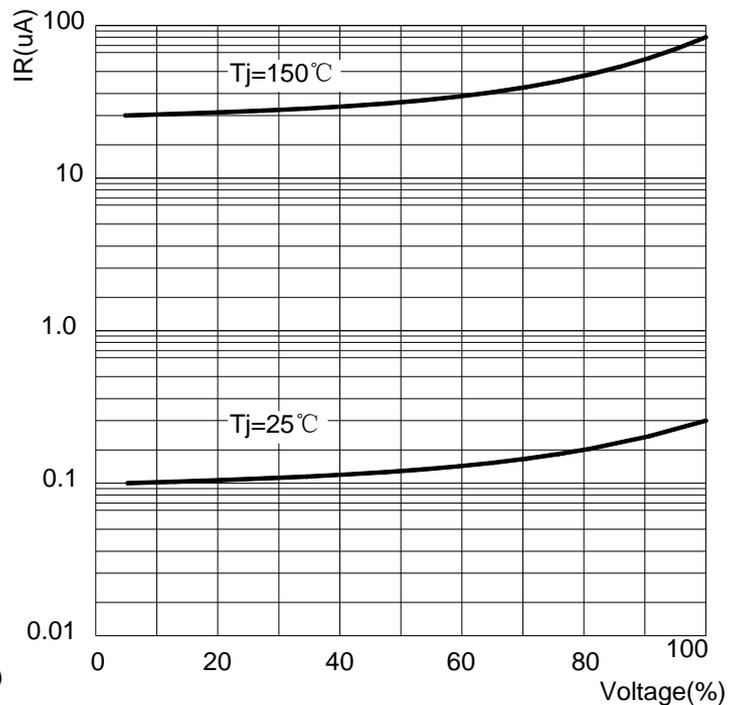


FIG4:TYPICAL REVERSE CHARACTERISTICS





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Ordering Information :

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

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