



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# **GBJL25005 THRU GBJL2510**

**25 Amp** 

**Glass Passivated** 

**Bridge Rectifier** 

50 to 1000 Volts

**GBJL** 

## **Features**

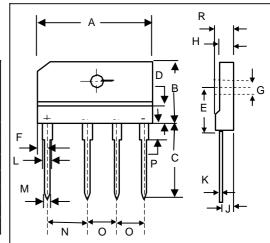
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
  Ideal for printed circuit board
  Low forward voltage drop, high current capability.
  Halogen free available upon request by adding suffix "-HF"
  Epoxy meets UL 94 V-0 flammability rating
 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

- Mounting: Through Hole for #6 Screw
- Mounting Torgue: 5.0 in-lbs Maximum

## **Maximum Ratings**

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

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Reccurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
GBJL25005	GBJL25005	50V	35V	50V
GBJL2501	GBJL2501	100V	70V	100V
GBJL2502	GBJL2502	200V	140V	200V
GBJL2504	GBJL2504	400V	280V	400V
GBJL2506	GBJL2506	600V	420V	600V
GBJL2508	GBJL2508	800V	560V	800V
GBJL2510	GBJL2510	1000V	700V	1000V



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	1.067	1.091	27.10	27.70	
В	.551	.575	14.00	14.60	
O	.570	.610	14.50	15.50	
О	.071 typ		1.80 typ		
Е	.339	.354	8.60	9.00	
F	.071	.087	1.80	2.20	
G	.120	.134	3.00	3.40	
Η	.110	.126	2.80	3.20	
J	.098	.114	2.50	2.90	
K	.012	.028	0.30	0.70	
L	.098	.114	2.50	2.90	
М	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
0	.290	.300	7.30	7.70	
Р	.079	.094	2.00	2.40	
R	.150	.157	3.60	4.00	
		<b>H</b>	<b>→</b>		

**Case Type** 

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

Average Forward Current	I <sub>F(AV)</sub>	25 A	Tc = 100°C
Peak Forward Surge	I <sub>FSM</sub>	350A	8.3ms, half sine
Current			
Maximum			I <sub>FM</sub> = 12.5 A
Instantaneous	$V_{F}$	1.05V	1FM = 12.5 A
Forward Voltage			T <sub>J</sub> = 25°C
Maximum DC			
Reverse Current At	$I_R$	10 µA	T <sub>J</sub> = 25°C
Rated DC Blocking		500µA	T <sub>J</sub> = 125°C
Voltage			
Typical thermal			
resistance	$R_{\Theta JC}$	0.6°C/W	
Typical Junction	C <sub>J</sub>	85 pF	Measured at
Capacitance			1.0MHz, V <sub>R</sub> =4.0V

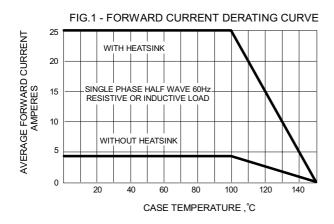
1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

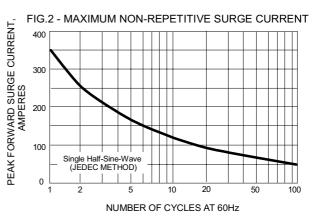
www.mccsemi.com

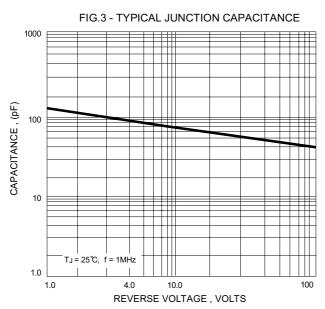


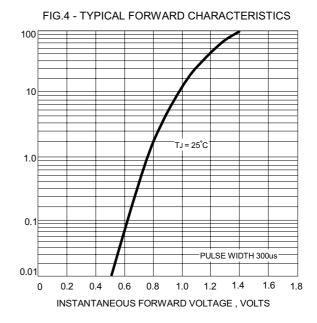
# RATING AND CHARACTERISTIC CURVES GBJL25005 thru GBJL2510

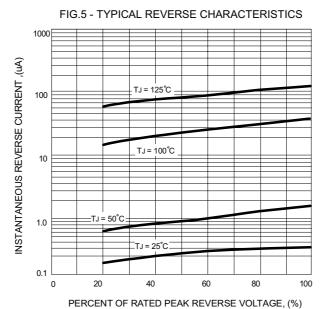
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### **Ordering Information:**

Device	Packing	
Part Number-BP	Bulk: 2.2K/Ctn	

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

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**Revision: B**