



Micro Commercial Components



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GBJL25005 THRU GBJL2510

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 Torque: 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 Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking 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

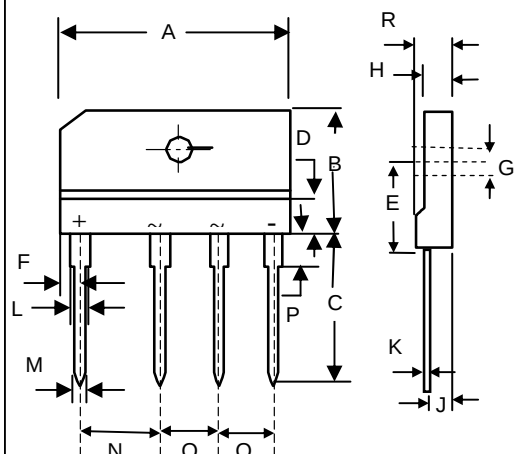
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	350A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 12.5 \text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 500 μA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	$R_{\theta JC}$	0.6°C/W	
Typical Junction Capacitance	C_J	85 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

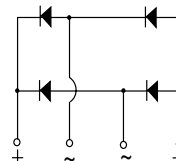
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

25 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

GBJL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.067	1.091	27.10	27.70	
B	.551	.575	14.00	14.60	
C	.570	.610	14.50	15.50	
D	.071 typ		1.80 typ		
E	.339	.354	8.60	9.00	
F	.071	.087	1.80	2.20	
G	.120	.134	3.00	3.40	
H	.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	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.079	.094	2.00	2.40	
R	.150	.157	3.60	4.00	



Case Type

www.mccsemi.com

RATING AND CHARACTERISTIC CURVES

GBJL25005 thru GBJL2510

FIG.1 - FORWARD CURRENT DERATING CURVE

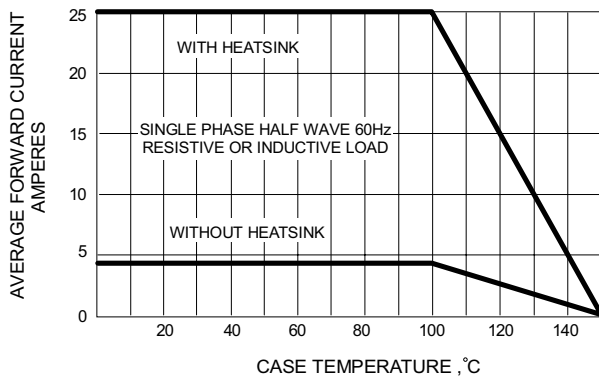


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

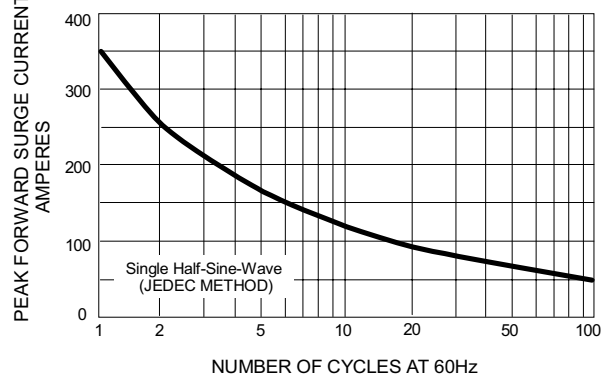


FIG.3 - TYPICAL JUNCTION CAPACITANCE

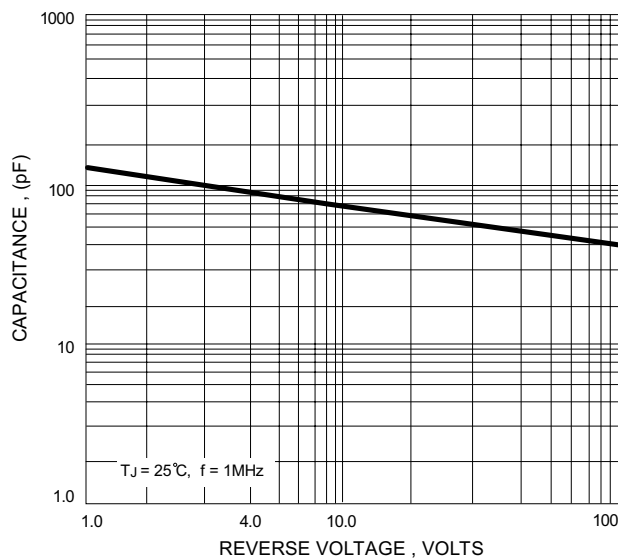


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

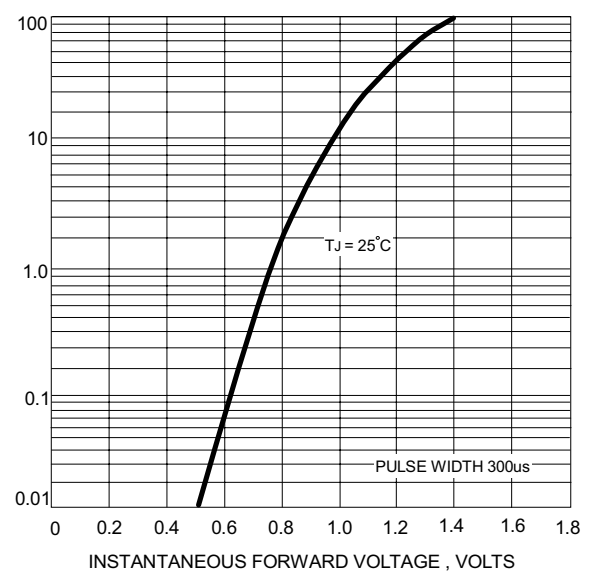
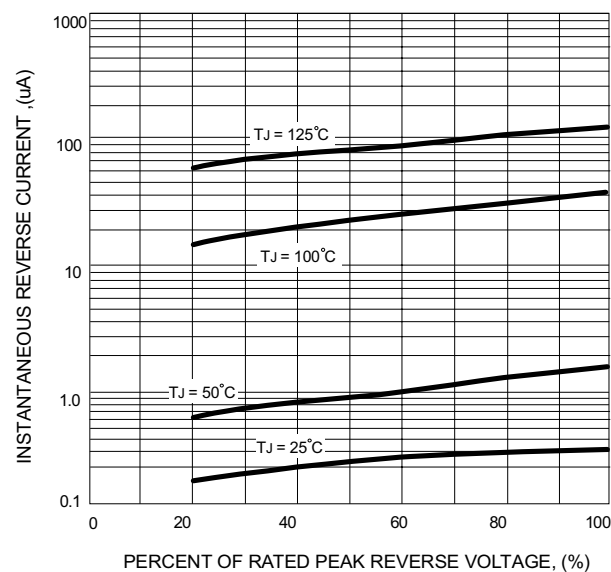


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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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[GBJL2510-BP](#)