



Micro Commercial Components



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GBJL15005 THRU GBJL1510

15 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)
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

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

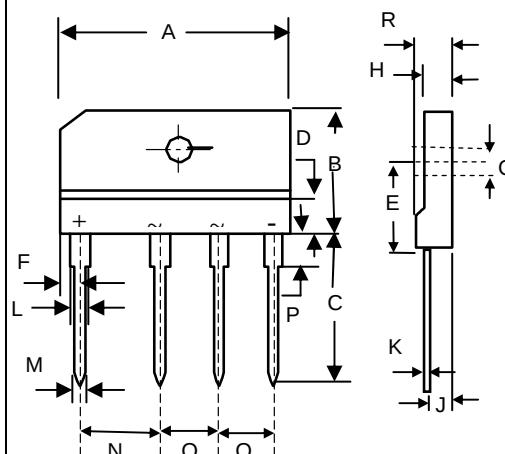
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJL15005	GBJL15005	50V	35V	50V
GBJL1501	GBJL1501	100V	70V	100V
GBJL1502	GBJL1502	200V	140V	200V
GBJL1504	GBJL1504	400V	280V	400V
GBJL1506	GBJL1506	600V	420V	600V
GBJL1508	GBJL1508	800V	560V	800V
GBJL1510	GBJL1510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 7.5A$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
I^2t Rating for fusing	I^2t	240A ² S	($t < 8.3\text{ms}$)
Typical Junction Capacitance	C_J	60 pF	Measured at 1.0MHz, $V_R = 4.0V$

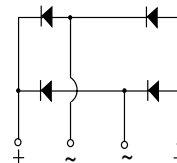
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
3. Device mounted on 300mm * 300mm * 1.6mm Cu Plate Heatsink

GBJL



DIMENSIONS

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	

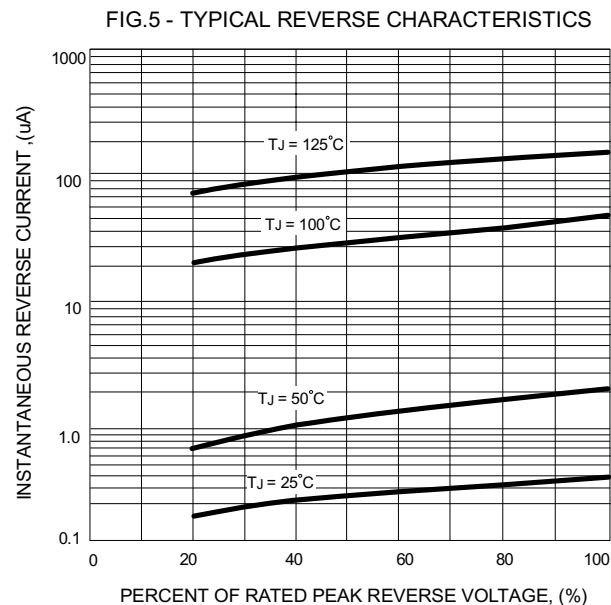
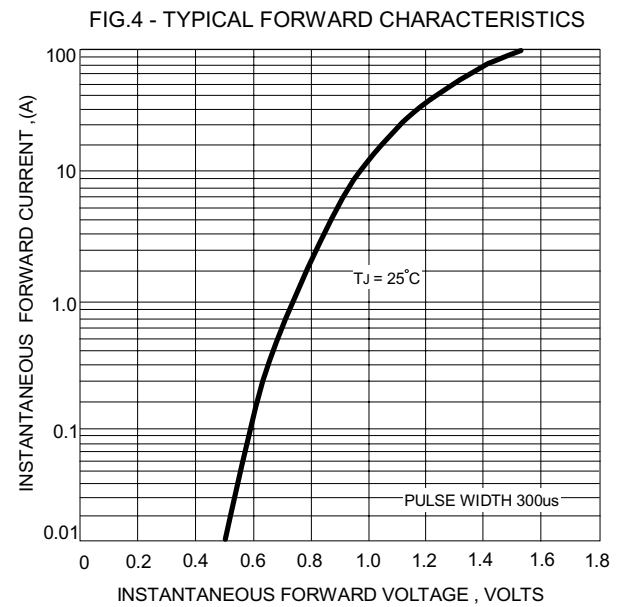
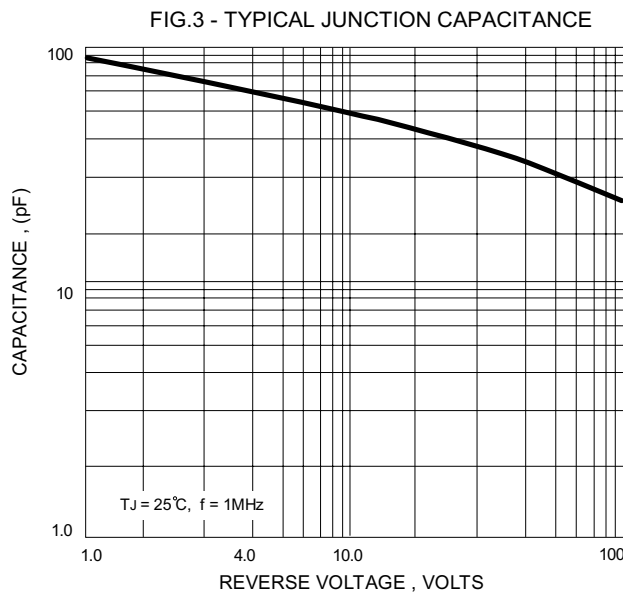
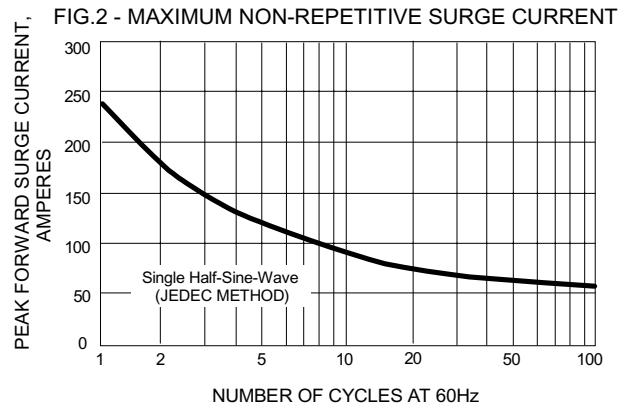
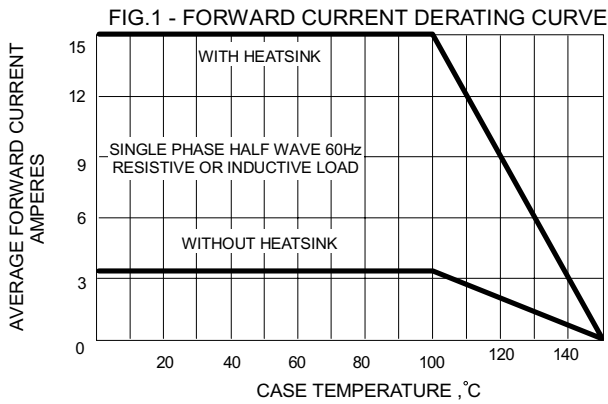


Case Type

www.mccsemi.com

RATING AND CHARACTERISTIC CURVES

GBJL15005 thru GBJL1510



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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