Micro Commercial Components
21201 Itasca Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

GBJ15005 THRU GBJ1510

15 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 0.8°C/W J to C (With heatsink)
- Typical Thermal Resistance 3.5°C/W J to L (Without heatsink)
- Typical Thermal Resistance 12°C/W J to A (Without heatsink)

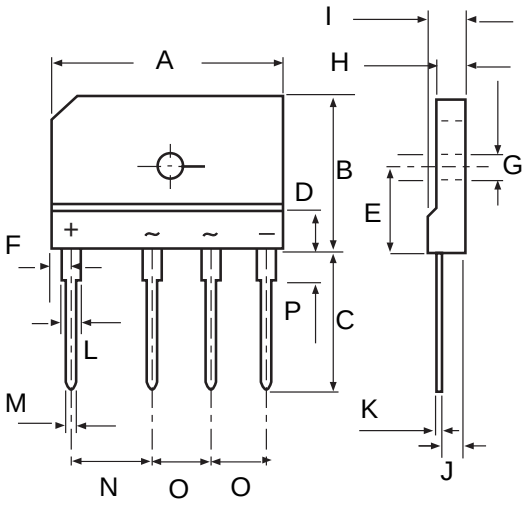
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ15005	GBJ1005	50V	35V	50V
GBJ1501	GBJ1501	100V	70V	100V
GBJ1502	GBJ1502	200V	140V	200V
GBJ1504	GBJ1504	400V	280V	400V
GBJ1506	GBJ1506	600V	420V	600V
GBJ1508	GBJ1508	800V	560V	800V
GBJ1510	GBJ1510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	15 A	Tc = 100°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°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10μA 500uA	T_J = 25°C T_J = 125°C
I^2t Rating for fusing	I^2t	$240A^2S$	(t<8.3ms)
Typical Junction Capacitance	C_J	60 pF	Measured at 1.0MHz, V_R=4.0V

NOTES : 1. Pulse Test: Pulse Width 300μsec, Duty Cycle 1%
2. Device mounted on 300mm * 300mm *1.6mm Cu Plate Heatsink

GBJ



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	

RATING AND CHARACTERISTIC CURVES
GBJ15005 thru GBJ1510

FIG.1 - FORWARD CURRENT DERATING CURVE

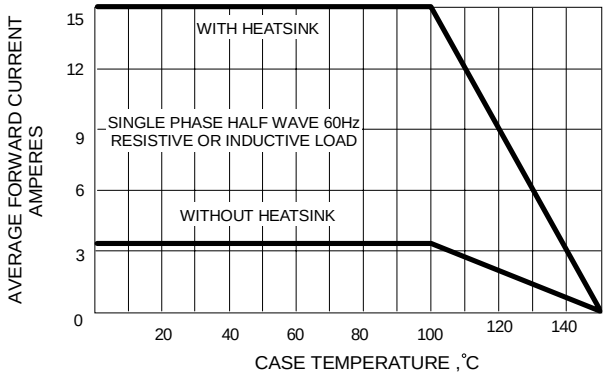


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

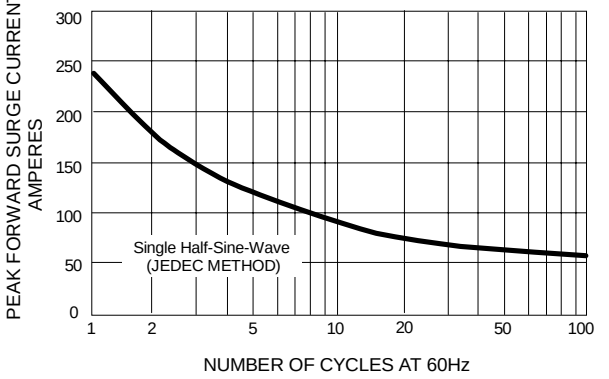


FIG.3 - TYPICAL JUNCTION CAPACITANCE

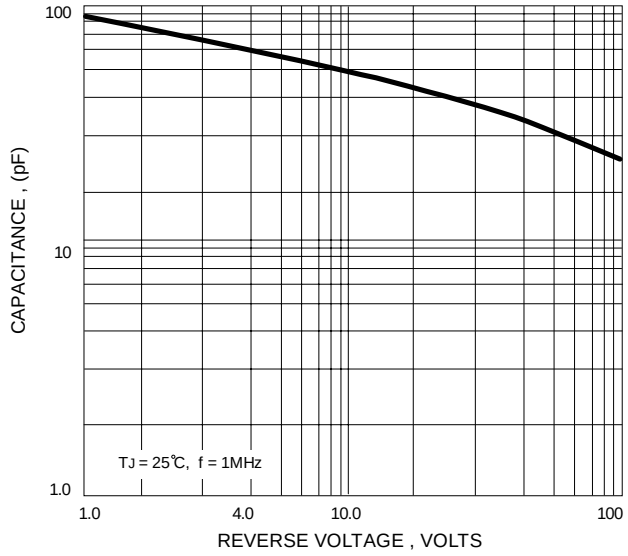


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

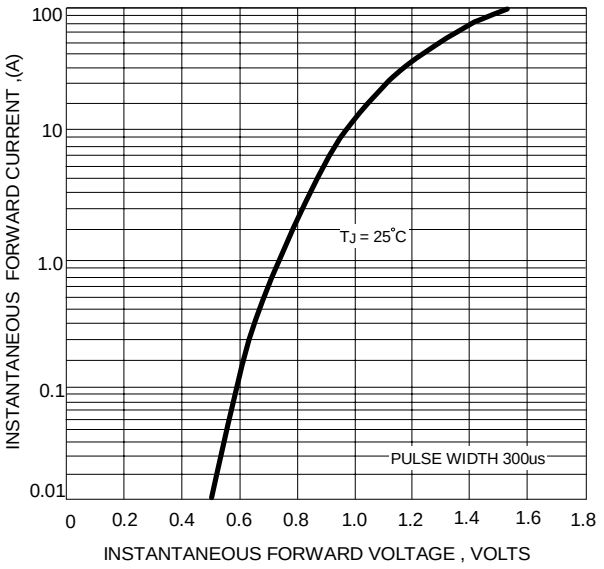


FIG.5 - TYPICAL REVERSE CHARACTERISTICS