Micro Commercial Components

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GBJ6005 THRU GBJ610

6 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

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

Maximum Ratings

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

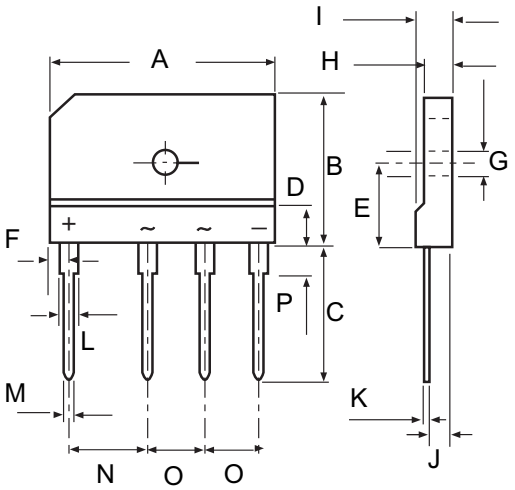
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ6005	GBJ6005	50V	35V	50V
GBJ601	GBJ601	100V	70V	100V
GBJ602	GBJ602	200V	140V	200V
GBJ604	GBJ604	400V	280V	400V
GBJ606	GBJ606	600V	420V	600V
GBJ608	GBJ608	800V	560V	800V
GBJ610	GBJ610	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

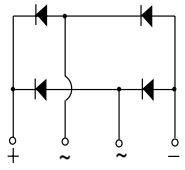
Average Forward Current	$I_{F(AV)}$	6 A	Tc = 110°C
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 3.0A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 µA 500uA	T_J = 25°C T_J = 125°C
Typical thermal resistance	$R_{\Theta JC}$	1.8°C/W	
Typical Junction Capacitance	C_J	55 pF	Measured at 1.0MHz, V_R=4.0V

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

GBJ



DIM	INCHES MIN	INCHES MAX	MM MIN	MM 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	



Case Type

FIG.1 - FORWARD CURRENT DERATING CURVE

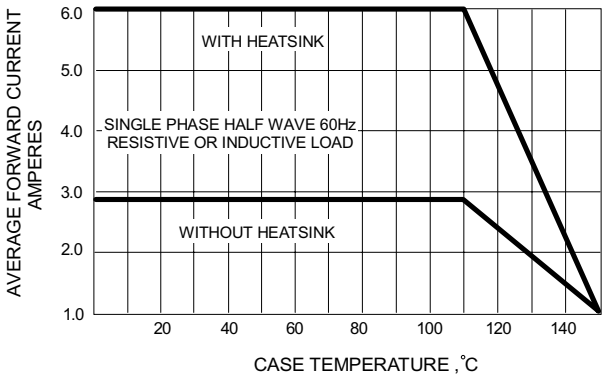


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

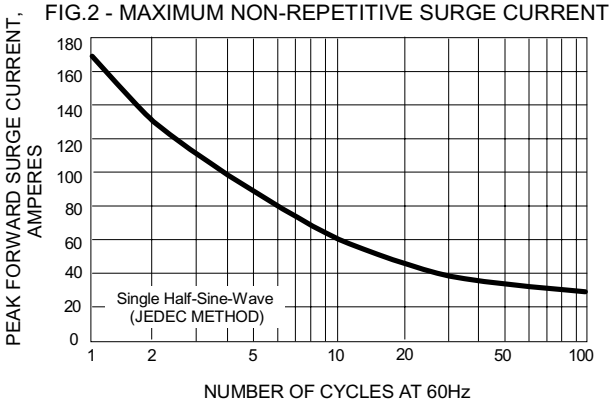


FIG.3 - TYPICAL JUNCTION CAPACITANCE

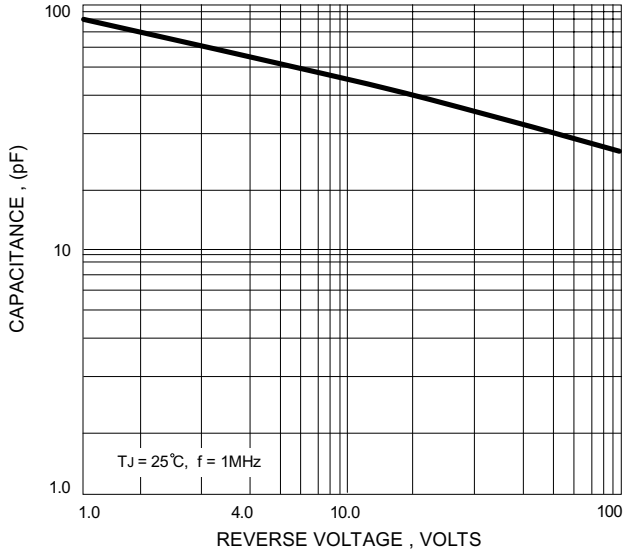


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

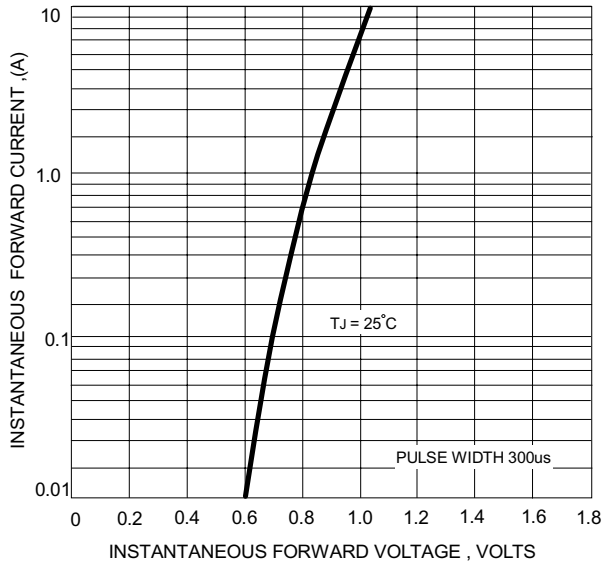
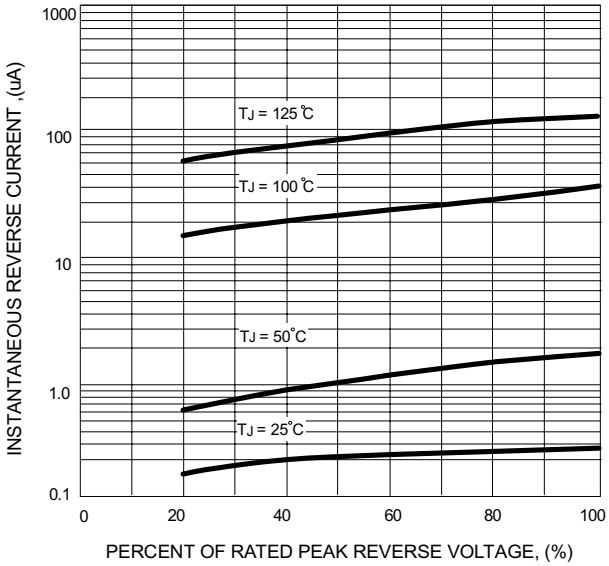


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 750pcs/Carton

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