

M·C·C·

Micro Commercial Components



Micro Commercial Components
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GBJ8005
THRU
GBJ810

Features

- Halogen free available upon request by adding suffix "-HF"
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

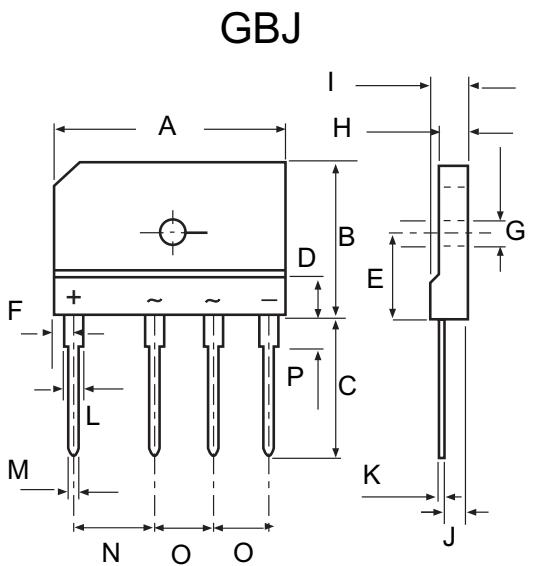
- Mounting Torque: 5.0 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJ8005	GBJ8005	50V	35V	50V
GBJ801	GBJ801	100V	70V	100V
GBJ802	GBJ802	200V	140V	200V
GBJ804	GBJ804	400V	280V	400V
GBJ806	GBJ806	600V	420V	600V
GBJ808	GBJ808	800V	560V	800V
GBJ810	GBJ810	1000V	700V	1000V

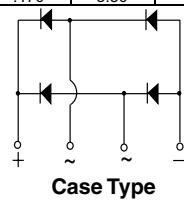
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8 A	$T_c = 110^\circ C$
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_{FM} = 4.0A$ $T_J = 25^\circ C$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$5 \mu A$ $500 \mu A$	$T_J = 25^\circ C$ $T_J = 125^\circ C$
Typical thermal resistance	R_{OJC}	1.6°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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	



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FIG.1 - FORWARD CURRENT DERATING CURVE

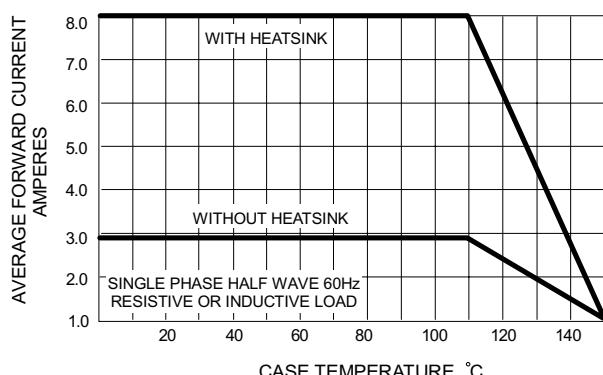


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

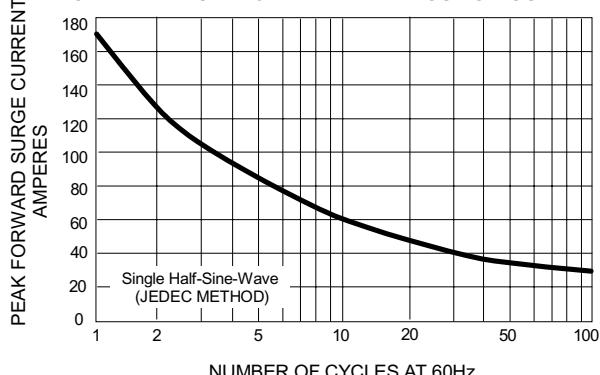


FIG.3 - TYPICAL JUNCTION CAPACITANCE

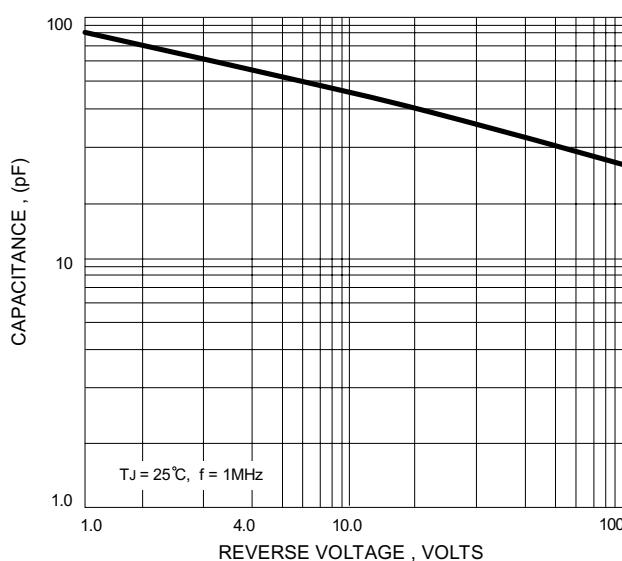


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

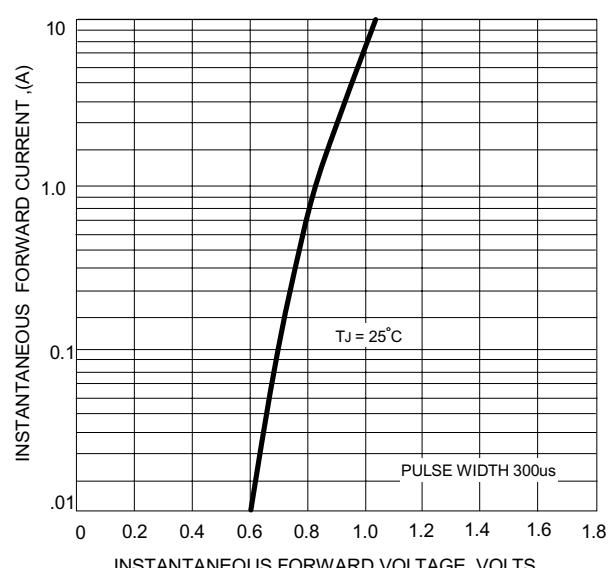
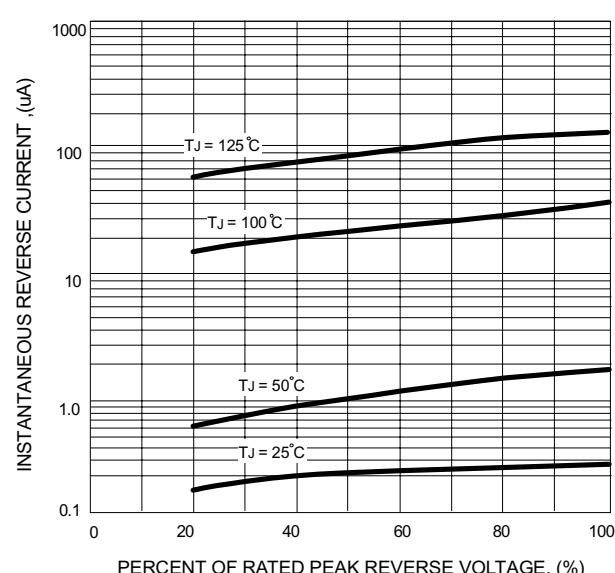


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Ordering Information

Device	Packing
(Part Number)-BP	Bulk: 1.5K/Ctn

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

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