

M·C·C·

Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

GBJL10005
THRU
GBJL1010

Features

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

Maximum Ratings

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

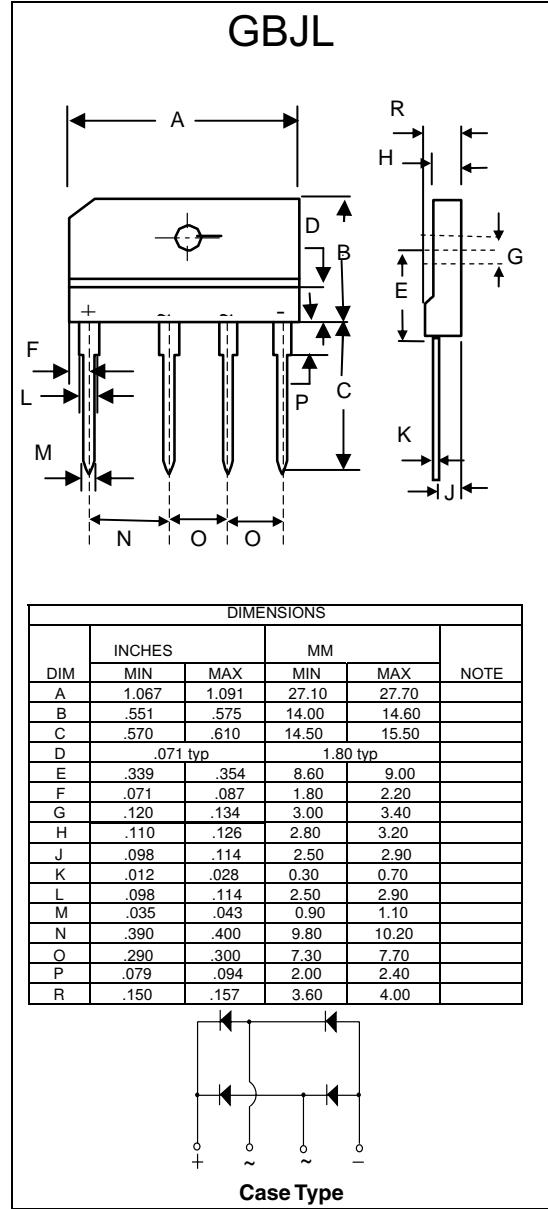
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJL10005	GBJL10005	50V	35V	50V
GBJL1001	GBJL1001	100V	70V	100V
GBJL1002	GBJL1002	200V	140V	200V
GBJL1004	GBJL1004	400V	280V	400V
GBJL1006	GBJL1006	600V	420V	600V
GBJL1008	GBJL1008	800V	560V	800V
GBJL1010	GBJL1010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_c = 110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 5.0\text{A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$10 \mu\text{A}$ $500\mu\text{A}$	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	R_{GJC}	$1.4^\circ\text{C}/\text{W}$	
Typical Junction Capacitance	C_J	55 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7
2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

10 Amp
Glass Passivated
Bridge Rectifier
50 to 1000 Volts



www.mccsemi.com

FIG.1 - FORWARD CURRENT DERATING CURVE

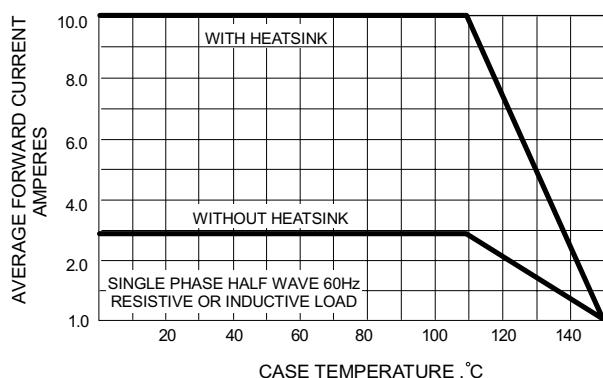


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

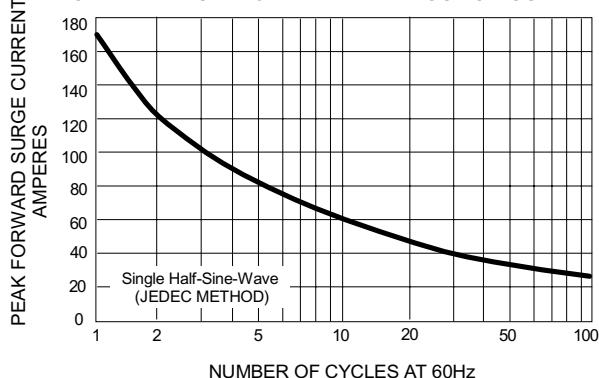


FIG.3 - TYPICAL JUNCTION CAPACITANCE

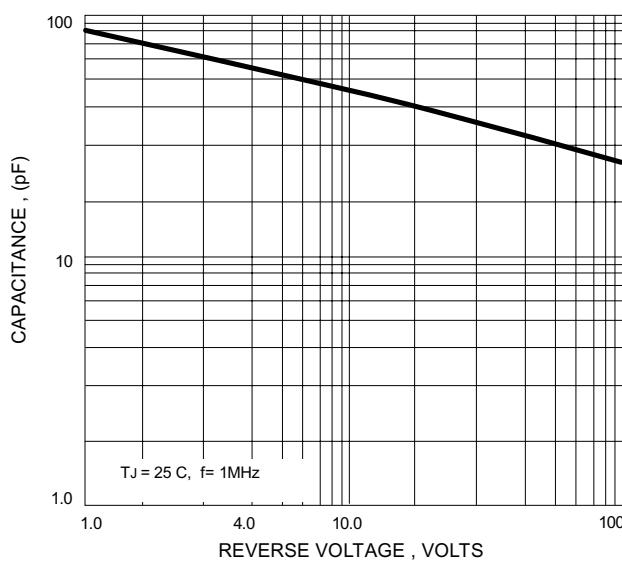


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

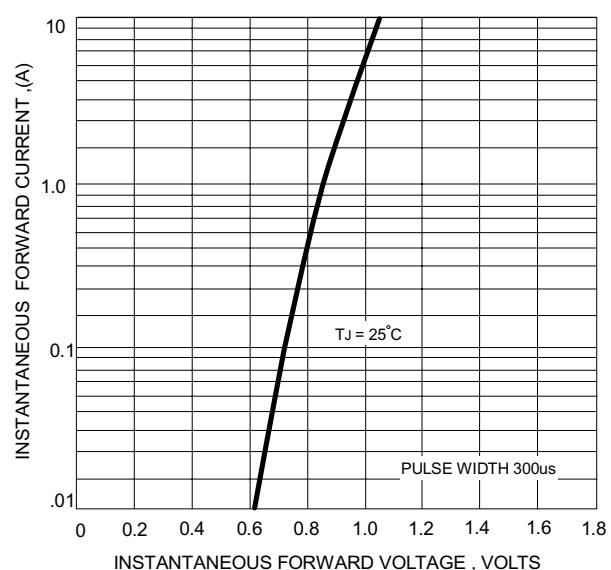
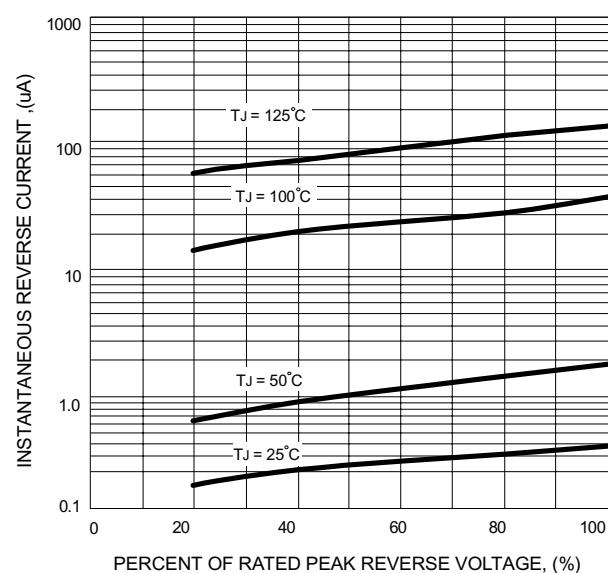


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 2.2 K/ Ctn

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

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