



Micro Commercial Components



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GBJL35005 THRU GBJL3510

Features

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

Maximum Ratings

- Mounting Torque: 5 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
GBJL35005	GBJL35005	50V	35V	50V
GBJL3501	GBJL3501	100V	70V	100V
GBJL3502	GBJL3502	200V	140V	200V
GBJL3504	GBJL3504	400V	280V	400V
GBJL3506	GBJL3506	600V	420V	600V
GBJL3508	GBJL3508	800V	560V	800V
GBJL3510	GBJL3510	1000V	700V	1000V

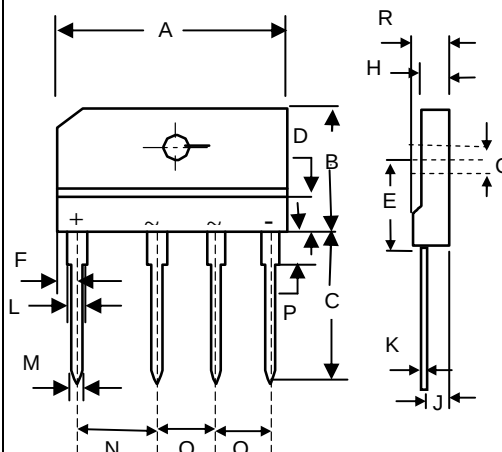
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	350A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.05V	$I_{FM} = 17.5 \text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 500uA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical thermal resistance	$R_{\theta JC}$	0.6°C/W	
Typical Junction Capacitance	C_J	85 pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

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

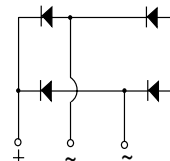
35 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

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

GBJL35005 thru GBJL3510

FIG.1 - FORWARD CURRENT DERATING CURVE

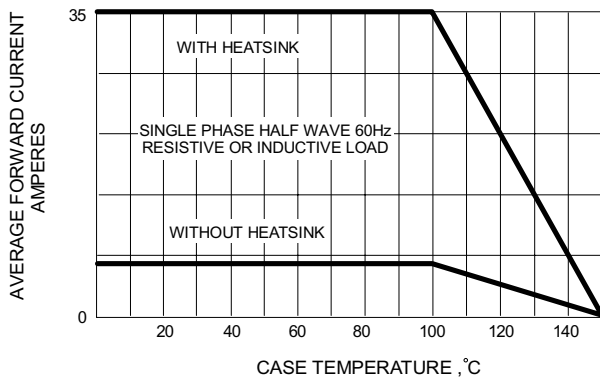


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

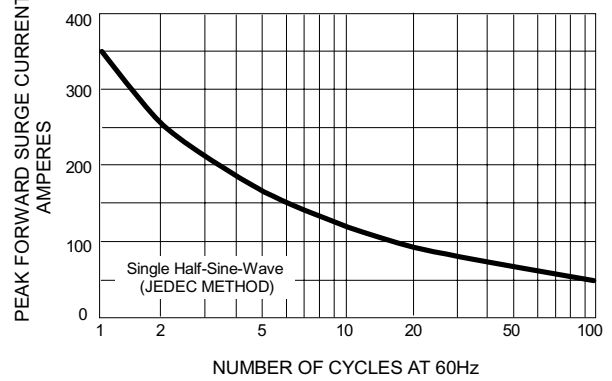


FIG.3 - TYPICAL JUNCTION CAPACITANCE

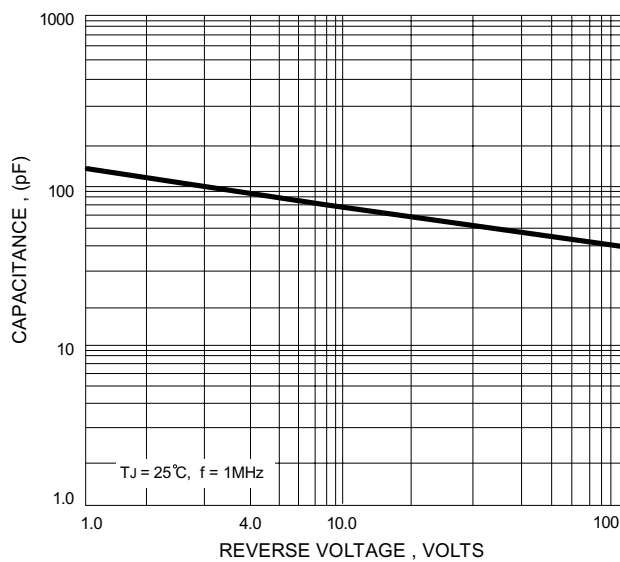


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

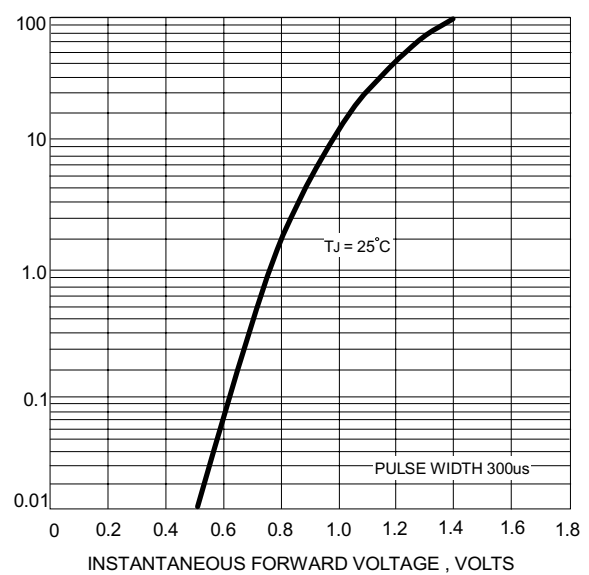
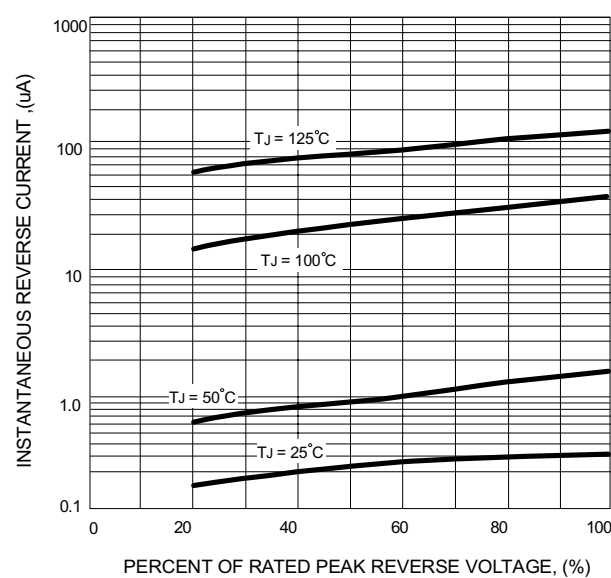


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Ordering Information :

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

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

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