Micro Commercial Components

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

GBJA20005 THRU GBJA2010

20 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- High surge forward current capability
- Halogen free available upon request by adding suffix "-HF"
- 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
- Mounting Torque: 0.5 N•m
- UL Recognized File # E165989

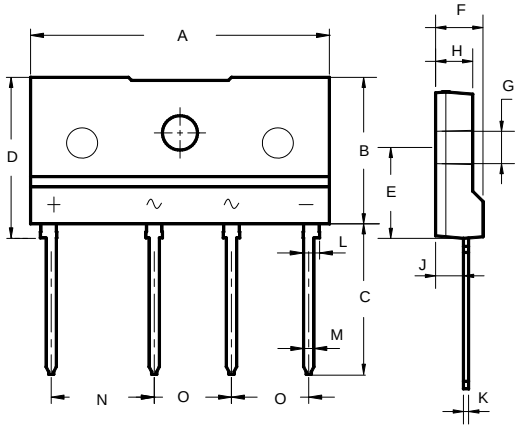
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBJA20005	GBJA20005	50V	35V	50V
GBJA2001	GBJA2001	100V	70V	100V
GBJA2002	GBJA2002	200V	140V	200V
GBJA2004	GBJA2004	400V	280V	400V
GBJA2006	GBJA2006	600V	420V	600V
GBJA2008	GBJA2008	800V	560V	800V
GBJA2010	GBJA2010	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	Tc = 90°C
Peak Forward Surge Current	I_{FSM}	240A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_{FM} = 10A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 µA	T_a = 25°C
I^2t Rating for fusing	I^2t	240A^2S	(1ms< t<8.3ms)
Thermal Resistance	R_{thJA} R_{thJC}	22°C/W 1.5°C/W	

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

JA



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.13	1.154	28.70	29.30	
B	.559	.583	14.20	14.80	
C	.575	.598	14.60	15.20	
D	.614	.638	15.60	16.20	
E	.343	.366	8.70	9.30	
F	.169	.193	4.30	4.90	
G	.122	.134	3.10	3.40	
H	.130	.154	3.30	3.90	
J	.098	.114	2.50	2.90	
K	.012	.024	0.40	0.60	
L	.059	.067	1.50	1.70	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	

RATING AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

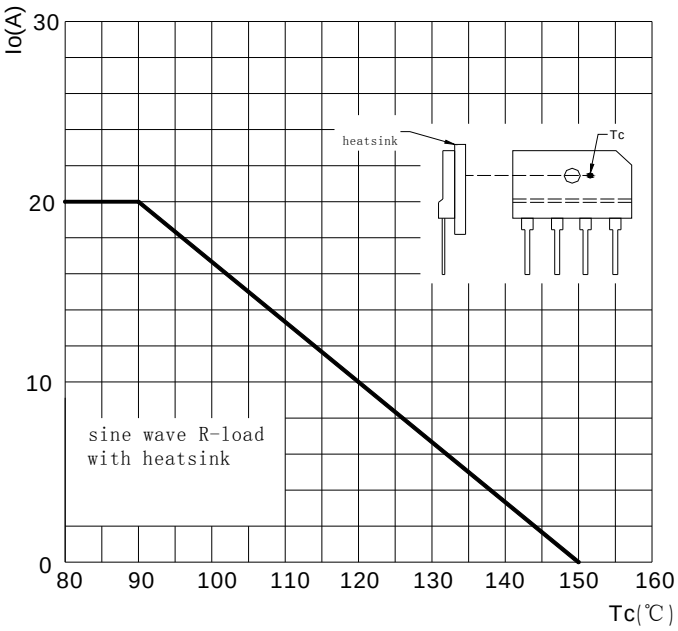


FIG2:Surge Forward Current Capadility

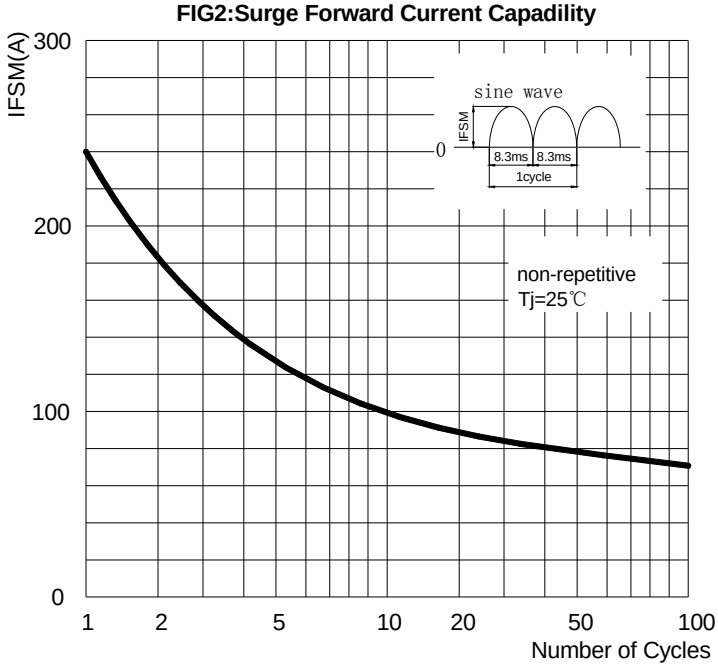


FIG3: Forward Voltage

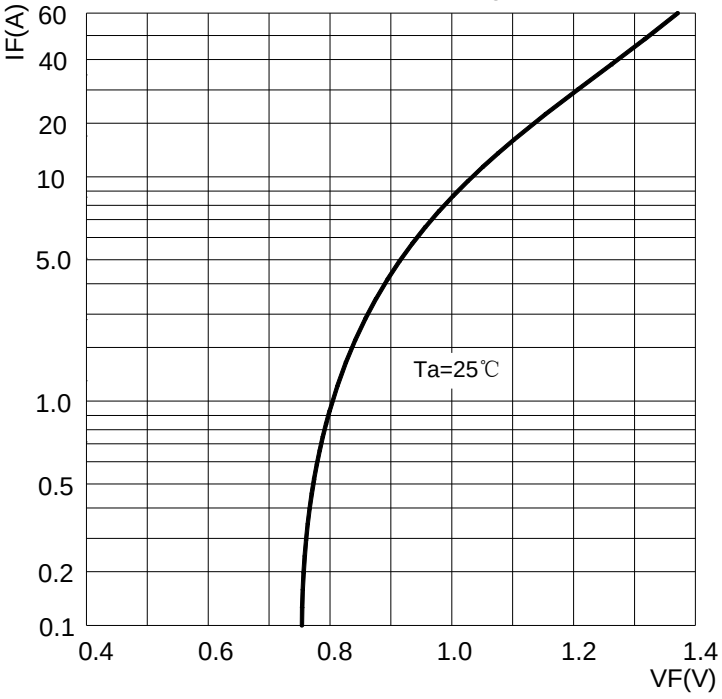
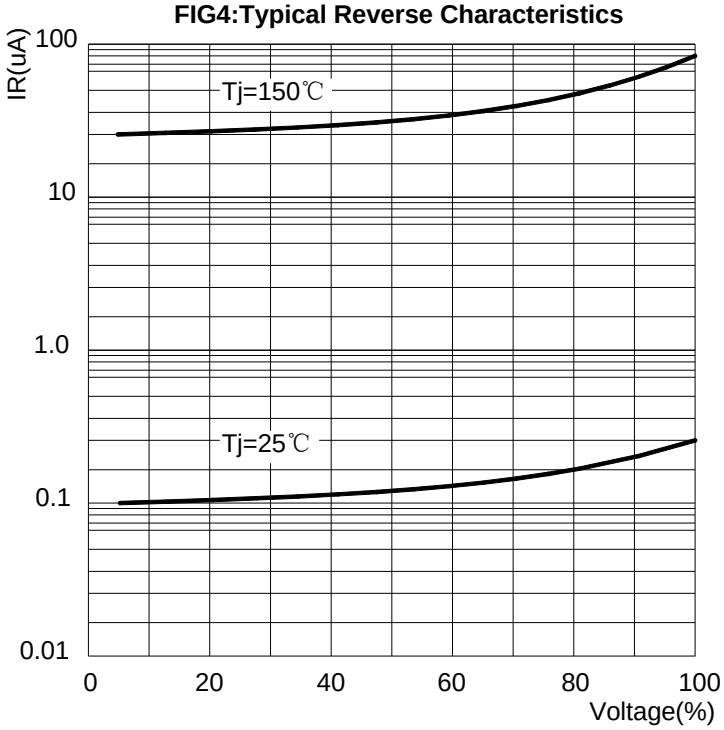


FIG4:Typical Reverse Characteristics



Micro Commercial Components

Ordering Information :

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

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . ***Micro Commercial Components Corp .*** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold ***Micro Commercial Components Corp .*** and all the companies whose products are represented on our website, harmless against all damages.

*****LIFE SUPPORT*****

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.