

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

GBU8A **THRU GBU8M**

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
 Halogen free available upon request by adding suffix "-HF"
- Glass Passivated Chip Junction
- High Surge Overload Rating
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

8 Amp Single Phase **Glass Passivated Bridge Rectifier** 50 to 1000 Volts

Maximum Ratings

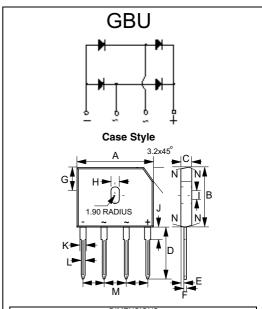
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 2.2°C/W Junction to Case
- UL Recognized File # E165989
- Mounting Torque: 5.0 in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU8A	GBU8A	50V	35V	50V
GBU8B	GBU8B	100V	70V	100V
GBU8D	GBU8D	200V	140V	200V
GBU8G	GBU8G	400V	280V	400V
GBU8J	GBU8J	600V	420V	600V
GBU8K	GBU8K	800V	560V	800V
GBU8M	GBU8M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8 A	Tc = 100°C
		2224	0.0
Peak Forward Surge	I _{FSM}	200A	8.3ms, half sine
Current			
Maximum			
Instantaneous	V_{F}	1.0V	I _{FM} =4A
Forward Voltage			T _J = 25°C
Maximum DC			
Reverse Current At	I_R	5 μΑ	$T_J = 25^{\circ}C$
Rated DC Blocking		500uA	T _J = 125°C
Voltage			15 120 0
I ² t Rating for fusing	2	2	
i t Raung for lusing	l ² t	166A ² S	(t<8.3ms)
Typical Junction	C _J	60pF	Measured at
Capacitance			1.0MHz, V _R =4.0V

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

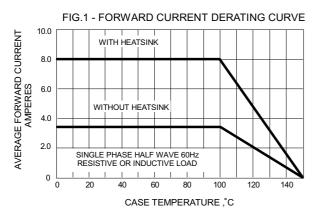


DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.860	.880	21.80	22.30			
В	.720	.740	18.30	18.80			
С	.130	.142	3.30	3.60			
D	.690	.717	17.50	18.20			
Е	.030	.039	0.76	1.00			
F	.018	.024	0.46	0.60			
G	.290	.310	7.40	7.90			
Н	.140	.160	3.50	4.10			
	.065	.085	1.65	2.16			
J	.060	.096	1.52	2.45			
K	.077	.098	1.95	2.50			
Ĺ	.040	.050	1.02	1.27			
М	.190	.210	4.83	5.33			
N 7.0° TYPICAL							





Micro Commercial Components



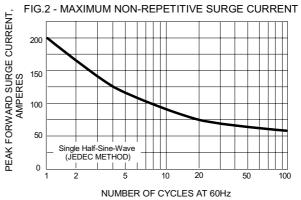


FIG.3 - TYPICAL JUNCTION CAPACITANCE

1000

100

TJ = 25°C, f = 1MHz

1.0 4 10 100

REVERSE VOLTAGE , VOLTS

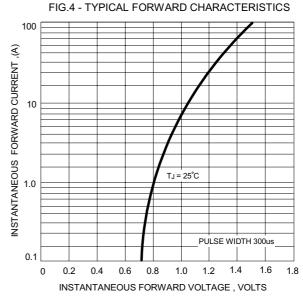
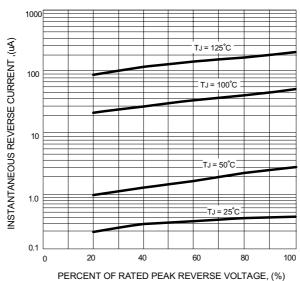


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1K/Box

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.