



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

GBU8A **THRU GBU8M**

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

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)

Maximum Ratings

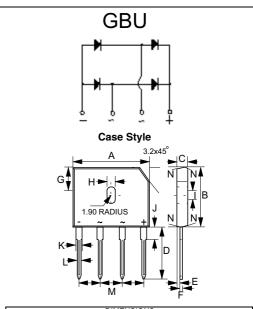
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
 Typical Thermal Resistance: 2.2°C/W Junction to Case 20°C/W Junction to Ambient
- UL Recognized File # E165989
- MountingTorgue: 5.0 in-lbs Maximum

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			
Peak Forward Surge Current	I _{FSM}	220A 200A 440A 400A	Tj=25°C, 8.3ms, Tj=125°C, half sine Tj=25°C, 1.0ms, Tj=125°C, half sine			
Maximum Instantaneous Forward Voltage	V_{F}	1.0V 1.2V	I _{FM} = $4A$ T _J = 25 °C I _{FM} = $8A$ T _J = 25 °C			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5 μA 500uA	T _J = 25°C T _J = 125°C			
I ² t Rating for fusing	l ² t	200A ² S 96.8A ² S	(t<8.3ms) (t<1.0ms)			
Typical Junction Capacitance	CJ	60pF	Measured at 1.0MHz, V _R =4.0V			

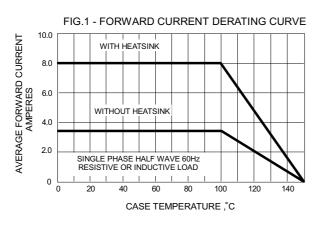
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

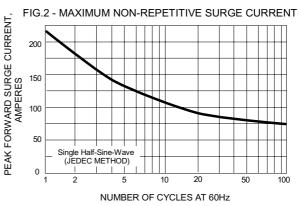


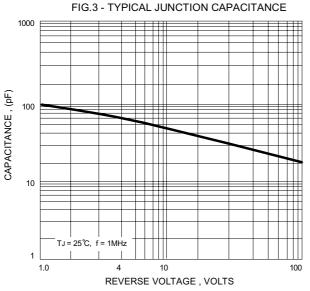
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.860	.880	21.80	22.30		
В	.720	.740	18.30	18.80		
C	.130	.142	3.30	3.60		
ם	.690	.717	17.50	18.20		
Е	.030	.039	0.76	1.00		
F	.018	.024	0.46	0.60		
G	.290	.310	7.40	7.90		
Н	.140	.160	3.50	4.10		
	.065	.085	1.65	2.16		
7	.060	.096	1.52	2.45		
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						



GBU8A thru GBU8M

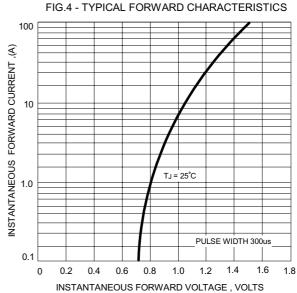






1000

0.1



TJ = 125°C

TJ = 100°C

TJ = 50°C

TJ = 25°C

40

FIG.5 - TYPICAL REVERSE CHARACTERISTICS

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PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

60



Ordering Information

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

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

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