



Micro Commercial Components



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# GBU10A THRU GBU10M

## Features

- UL Recognized File # E165989
- Glass Passivated Chip junction
- High Surge Overload Rating
- Case Material: Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- High Case Dielectric Strength of 1500 V<sub>RMS</sub>

## 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(Heatsink)
- Mounting Torque: 5.0 in-lbs Maximum

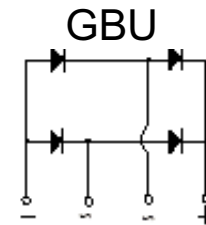
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU10A	50V	35V	50V
GBU10B	100V	70V	100V
GBU10D	200V	140V	200V
GBU10G	400V	280V	400V
GBU10J	600V	420V	600V
GBU10K	800V	560V	800V
GBU10M	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

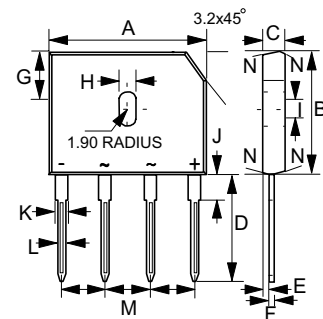
Maximum Average Forward Current	I <sub>F(AV)</sub>	10 A	T <sub>C</sub> = 100°C
Peak Forward Surge Current	I <sub>FSM</sub>	240A 220A 480A 440A	T <sub>j</sub> =25°C, 8.3ms, T <sub>j</sub> =125°C, half sine T <sub>j</sub> =25°C, 1.0ms, T <sub>j</sub> =125°C, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V 1.2V	I <sub>FM</sub> =5A, I <sub>FM</sub> =10A,
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5uA 500uA	T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C
Typical Junction Capacitance	C <sub>J</sub>	70pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
I <sup>2</sup> t Rating for Fusing	I <sup>2</sup> t	239A <sup>2</sup> S 115.2A <sup>2</sup> S	t<8.3ms t<1.0ms

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

## 10 Amp Single Phase Glass Passivated Bridge Rectifiers 50 to 1000 Volts



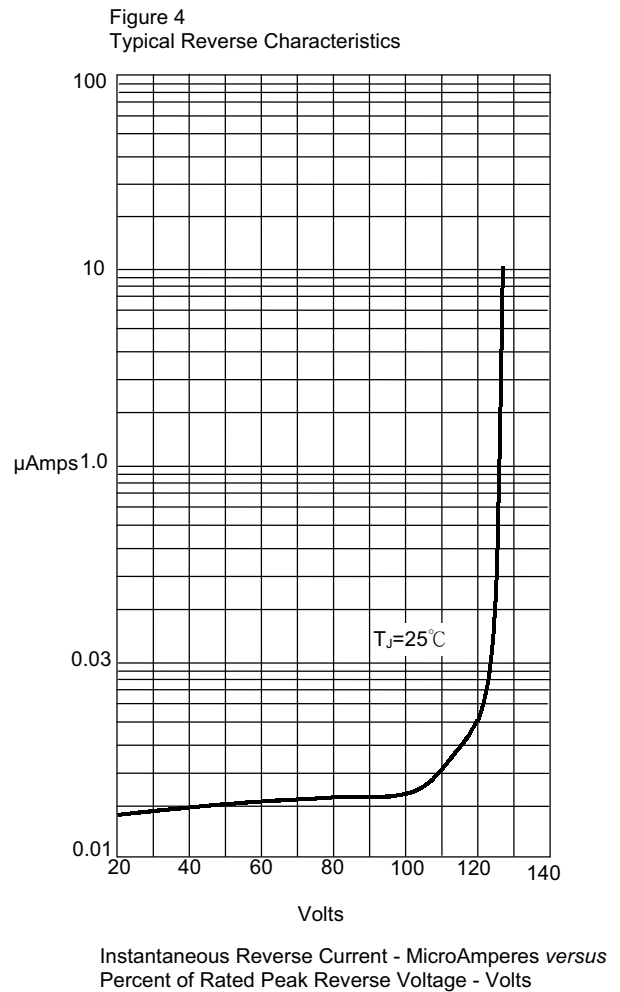
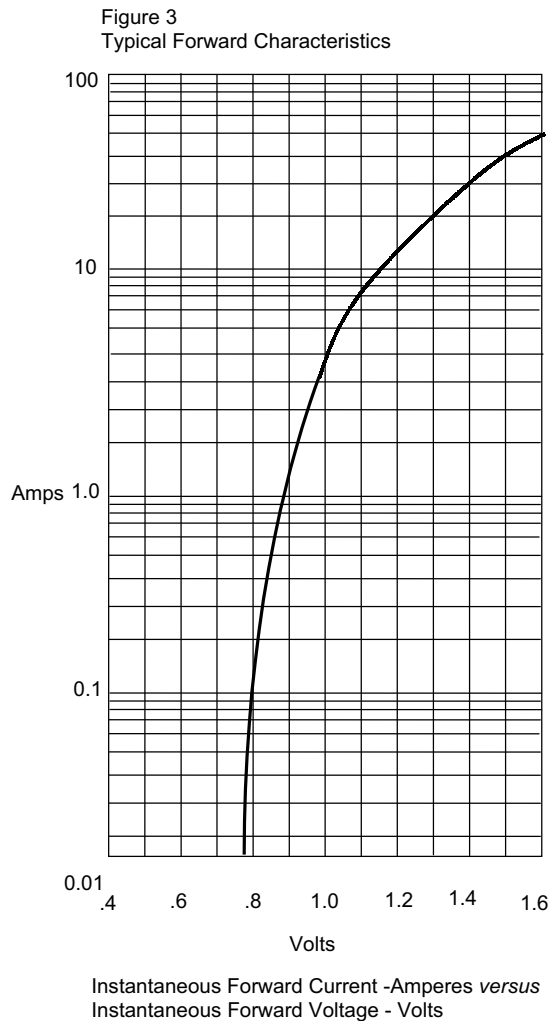
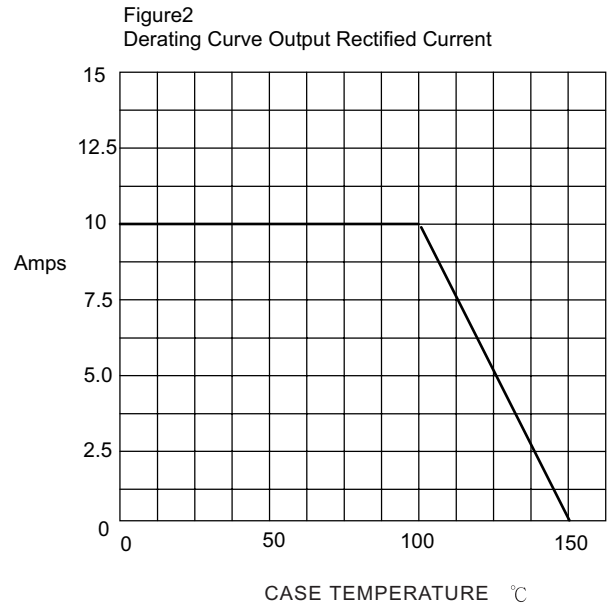
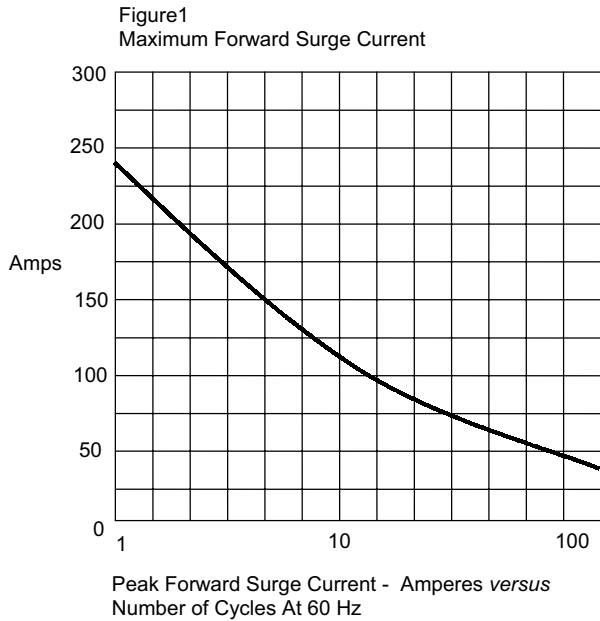
Case Style



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.142	3.30	3.60	
D	.690	.717	17.50	18.20	
E	.030	.039	0.76	1.00	
F	.018	.024	0.46	0.60	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.060	.096	1.52	2.45	
K	.077	.098	1.95	2.50	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N	7.0° TYPICAL				

## Characteristics(Typical)





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## Ordering Information

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

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