Micro Commercial Components
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GBU10A THRU GBU10M

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

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)

Maximum Ratings

- Operating Temperature: -55℃ to +150℃
- Storage Temperature: -55℃ to +150℃
- Typical Thermal Resistance:2.2℃/W Junction to Case(Heatsink)

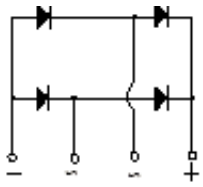
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBU10A	50V	35V	50V
GBU10B	100V	70V	100V
GBU10D	200V	140V	200V
GBU10G	400V	280V	400V
GBU10J	600V	420V	600V
GBU10K	800V	560V	800V
GBU10M	1000V	700V	1000V

Electrical Characteristics @ 25℃ Unless Otherwise Specified

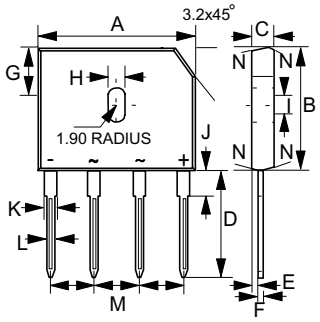
Maximum Average Forward Current (with heatsink Note 1)	$I_{F(AV)}$	10 A	T_C = 100℃
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	At 5A DC
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 500uA	T_A = 25℃ T_A = 125℃
Typical Junction Capacitance	C_J	70pF	Measured at 1.0MHz, V_R=4.0V
I^2t Rating for Fusing	I^2t	$200A^2S$	t<8.3ms

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

GBU

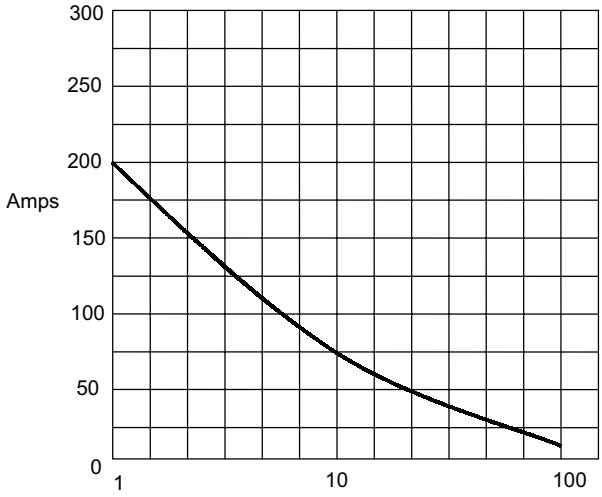


Case Style



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.140	3.30	3.56	
D	.690	.710	17.50	18.00	
E	.030	.039	0.76	1.00	
F	.018	.022	0.46	0.56	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.089	.108	2.25	2.75	
K	.077	.093	1.95	2.35	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N		7.0° TYPICAL			

Figure1
Maximum Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number of Cycles At 60 Hz

Figure2
Derating Curve Output Rectified Current

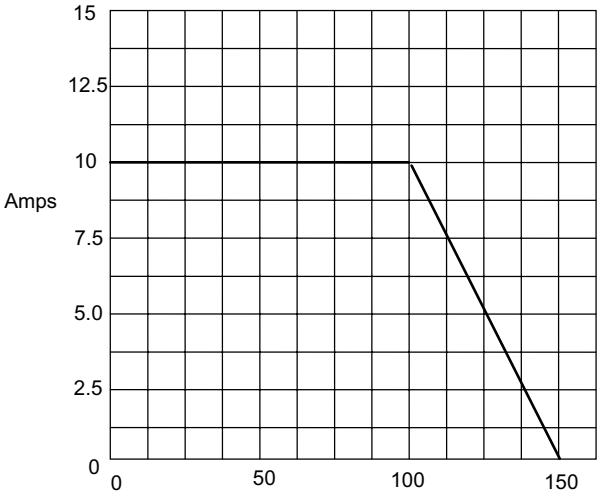
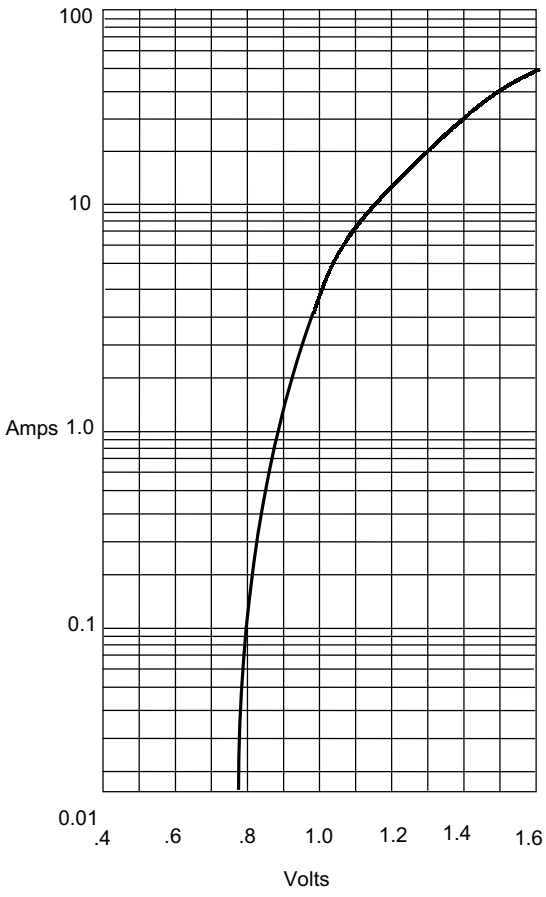
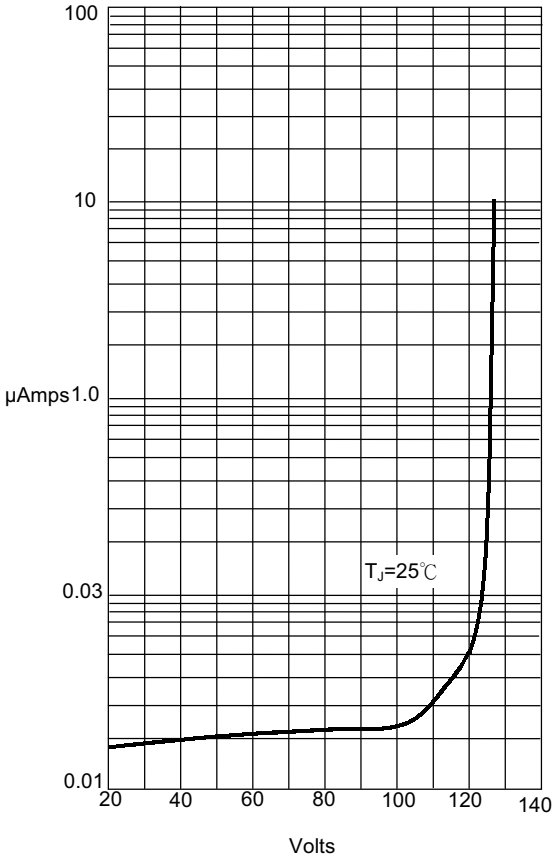


Figure 3
Typical Forward Characteristics



Instantaneous Forward Current -Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes *versus*
Percent of Rated Peak Reverse Voltage - Volts

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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;20pcs/Tube