



Micro Commercial Components

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

GBU10A THRU GBU10M

Features

- Glass Passivated Chip junction
- High Surge Overload Rating
- UL Recognized File # E165989
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking : type number

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)

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

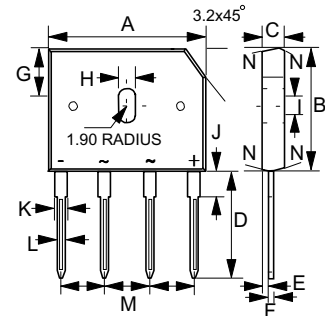
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current (with heatsink Note 1)	$I_{F(AV)}$	10 A	$T_C = 100^\circ\text{C}$
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	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Junction Capacitance	C_J	70pF	Measured at 1.0MHz, $V_R=4.0V$
I^2t Rating for Fusing	I^2t	200A ² S	$t < 8.3\text{ms}$

Note:1. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink

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

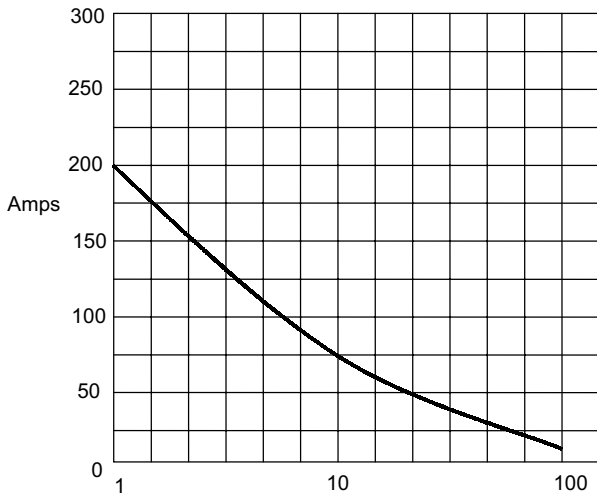
GBU



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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				

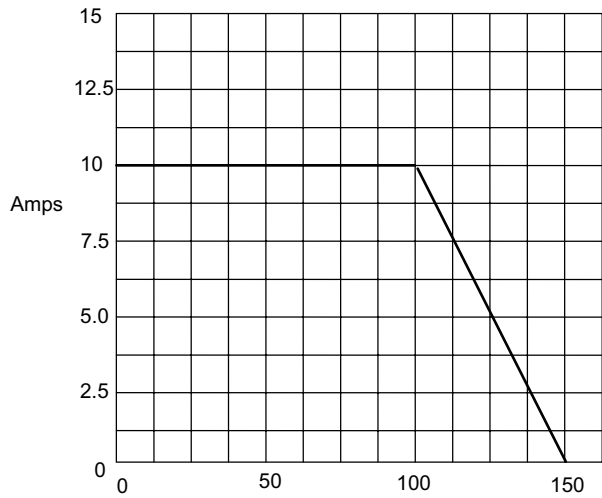
GBU10A thru GBU10M

Figure1
Maximum Forward Surge Current



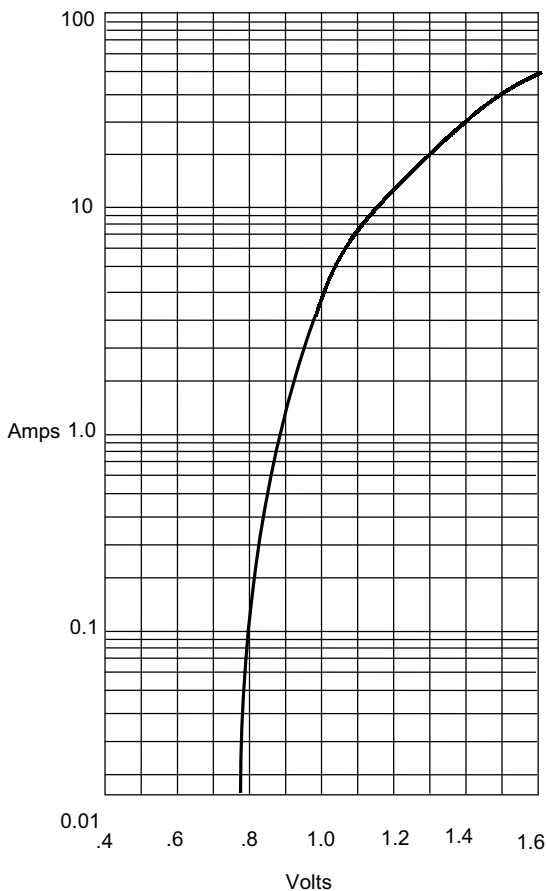
Peak Forward Surge Current - Amperes versus Number of Cycles At 60 Hz

Figure2
Derating Curve Output Rectified Current



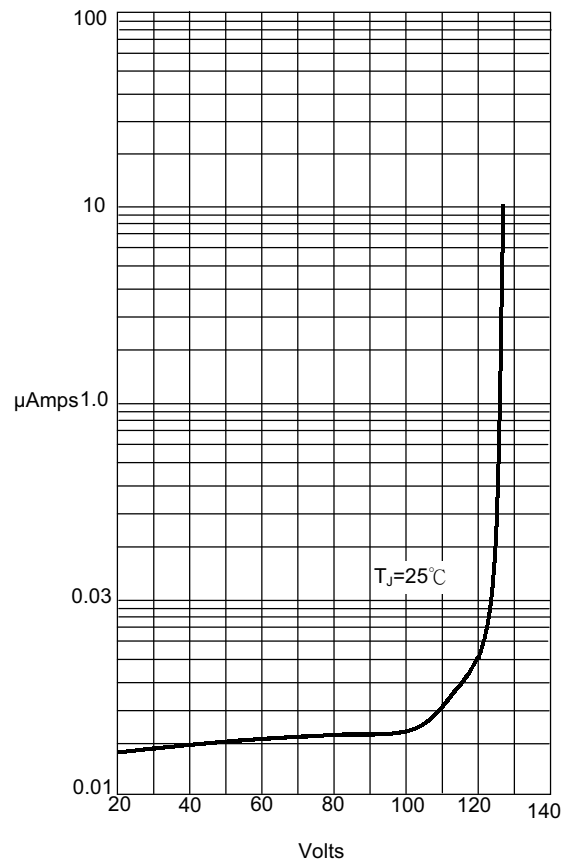
CASE TEMPERATURE °C

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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