



DATA SHEET

SEMICONDUCTOR

GBU10A THRU GBU10M

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



GBU Unit:inch(mm)

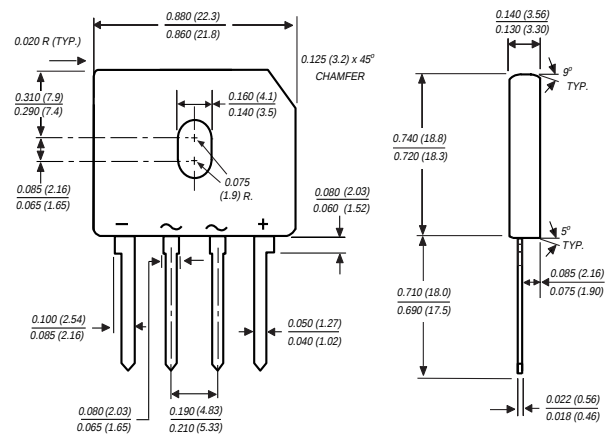
FEATURES

- Plastic Material has Underwriters Laboratory
- Glass Passivated Chip junction
- High Surge Overload Rating
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

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



Dimensions in inches and (millimeters)

Electrical Characteristics @ 25 Unless Otherwise Specified

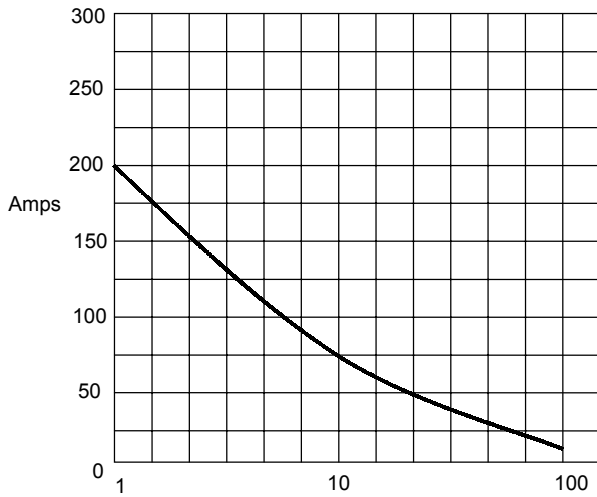
Maximum Average Forward Current (with heatsink Note1)	IF(AV)	10 A	TA = 100
Peak Forward Surge Current	IFSM	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	VF	1.1V	At 5.0/7.5/12.5/17.5A DC
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	5.0uA 500uA	TA = 25 TA = 125
Typical Junction Capacitance	CJ	70pF	Measured at 1.0MHz, VR=4.0V
I2t Rating for Fusing	I2t	200A2S	t<8.3ms

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

DEVICE CHARACTERISTICS

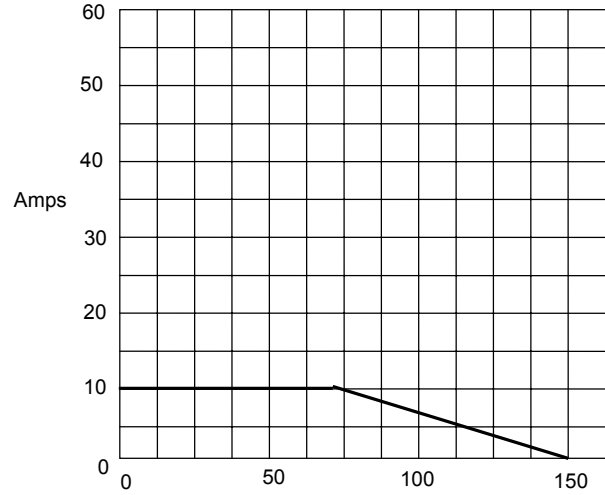
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Figure1
Maximum Forward Surge Current



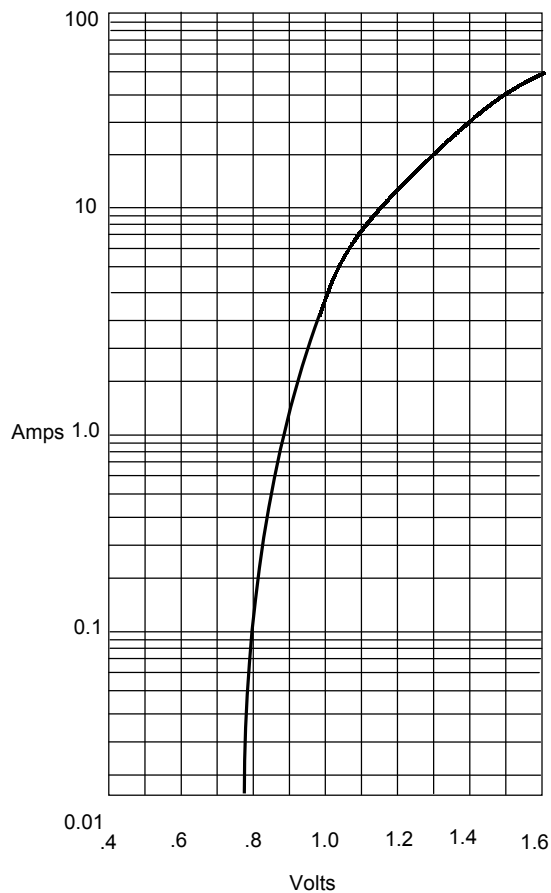
Peak Forward Surge Current - Amperes *versus*
Number of Cycles At 60 Hz

Figure2
Derating Curve Output Rectified Current



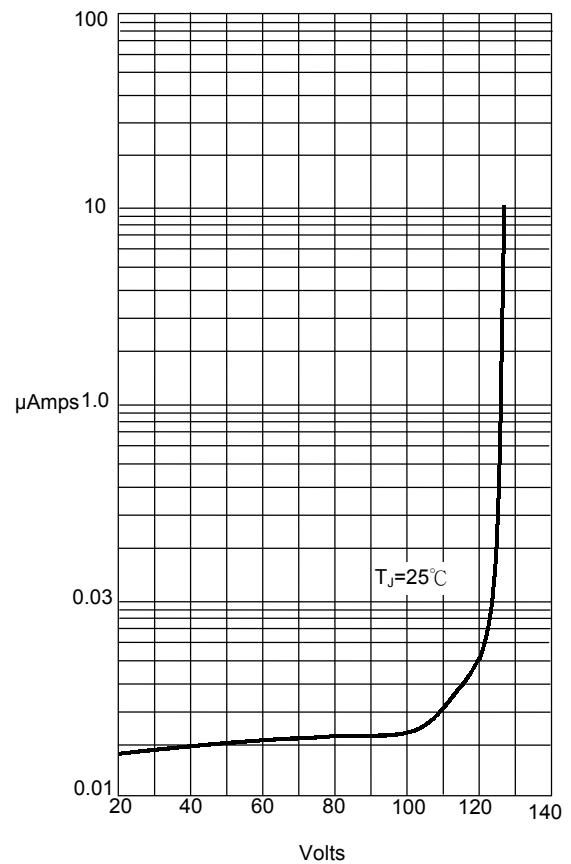
Peak Forward Surge Current - Amperes *versus*
Number of Cycles At 60 Hz

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