

## DATA SHEET

# GBU10A~GBU10K

## GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

### VOLTAGE - 50 to 800 Volts CURRENT - 10.0 Amperes

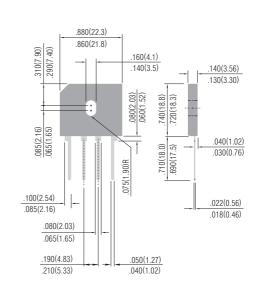
### FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 200 Amperes peak
- · High temperature soldering guaranteed:

260°C/10 seconds/.375"(9.5mm) lead length at 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: Reliable low cost construction utilizing molded plastic technique Terminals: Leads solderable per MIL-STD-202, Method 208 Mounting position: Any Mounting torque: 5 in. Ib. Max. Weight: 0.15 ounce, 4.0 grams



GBU

Unit: inch ( mm )

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For Capacitive load derate current by 20%.

	GBU10A	GBU10B	GBU10D	GBU10G	GBU10J	GBU10K	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Input Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward T <sub>C</sub> =100°C Rectified Output Current at	10.0						A
I2t Rating for fusing ( t<8.35ms)	127						A <sup>2</sup> sec
Peak Forward Surge Current single sine-wave superimposed on rated load(JEDEC method)	200						Apk
Maximum Instantaneous Forward Voltage Drop per element at 5.0A	1.0						Vpk
Maximum Reverse Leakage at rated $T_A=25^{\circ}$ CDc Blocking Voltage per element $T_C=100^{\circ}C$	5.0 500						μΑ μΑ
Typical Thermal Resistance per leg(Note 2) R0JA	8.6						°C /W
Typical Thermal Resistance per leg(Note 3) RθJC	3.1						°C /W
Operating and Storage Temperature Range, TJ,TSTG	-55+150						°C

NOTES:

1. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

2. Units Mounted in free air, no heatsink, P.C.B at 0.375"(9.5mm) lead length with 0.5 x 0.5"(12 x 12mm)copper pads.

3. Units Mounted on a 2.6 x 1.4" x 0.06" thick (  $6.5 \ x \ 3.5 \ x \ 0.15 cm)$  AL plate.



