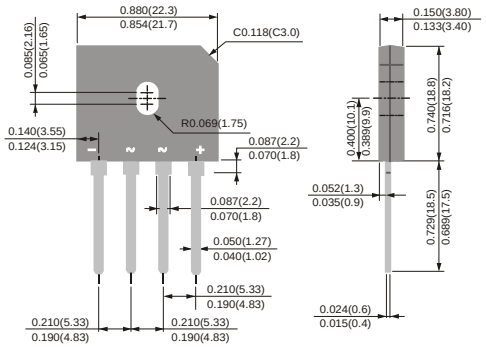
GBU10BG~GBU10MG

PHOTO GLASS BRIDGE RECTIFIER

VOLTAGE 100 to 1000 Volts CURRENT 10 Amperes

Green

GBU Unit : inch(mm)



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
- Both normal and Pb free product are available :
  Normal : 80~95% Sn, 5~20% Pb
  Pb free: 98.5% Sn above

MECHANICALDATA

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. lb. Max.

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%.

PARAMETER	SYMBOL	GBU10BG	GBU10DG	GBU10GG	GBU10JG	GBU10KG	GBU10MG	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward T_C=100°C Rectified Output Current at T_A=40°C	I_{AV}	10						A
I^2t Rating for fusing (t<8.3ms)	I^2t	216						A^2sec
Peak Forward Surge Current single sine-wave superimposed on rated load	I_{FSM}	200						Apk
Maximum Instantaneous Forward Voltage Drop per element at 2A	V_F	1						Vpk
Maximum Reverse Leakage Current at Rated @ T_A=25°C Dc Blocking Voltage @ T_A=100°C	I_R	5 500						μA
Typical Thermal Resistance per leg (Note 2) (Note 3)	$R_{\Theta JA}$ $R_{\Theta JC}$	8.6 3.1						°C/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to + 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 0.15cm) AL plate.

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RATING AND CHARACTERISTIC CURVES

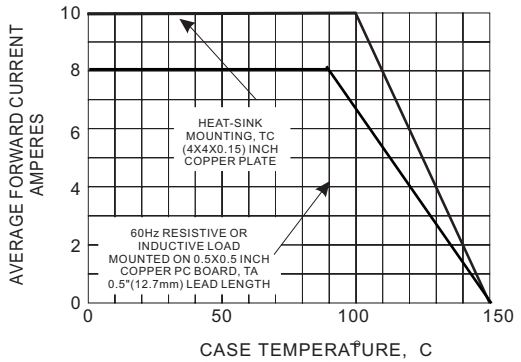

Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

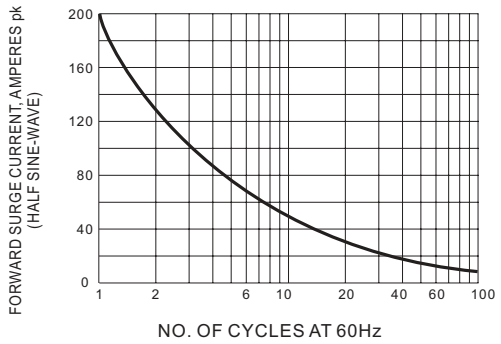

Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

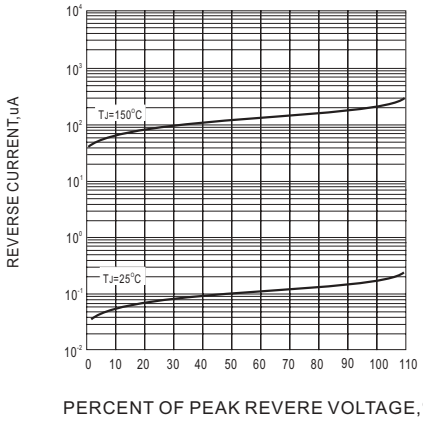

Fig.3 - TYPICAL REVERSE CHARACTERISTICS

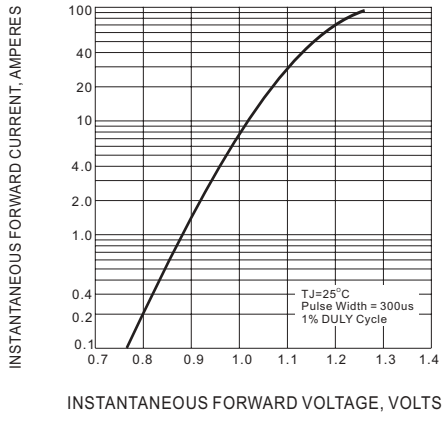

Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT