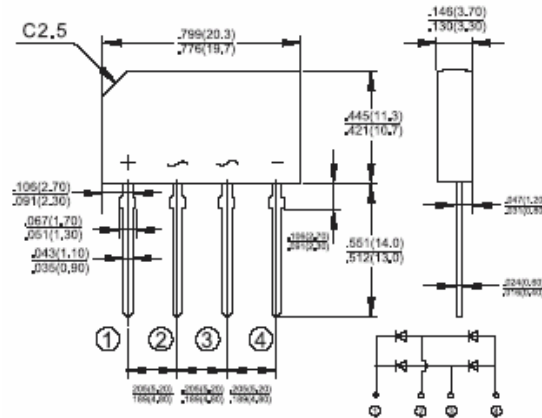


GBL005 - GBL10 Single Phase 0.8 AMPS. Glass Passivated Bridge Rectifiers

GBL



Features

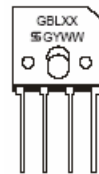
- ◇ UL Recognized File # E-96005
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength
- ◇ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ◇ Typical IR less than 0.1uA
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- ◇ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ◇ Case : Molded plastic body
- ◇ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ◇ Weight : 2.0 grams (0.071 ounce)
- ◇ Mounting position : Any

Dimension in inches and (millimeter)

Marking Diagram



GBLXX = Specific Device Code
 G = Green Compound
 Y = Year
 WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

Type Number	Symbol	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Tc = 50°C (Note 1)	I _(AV)	4.0							A
@ Tc = 40°C (Note 2)		3.0							
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							A
Rating of fusing (t < 8.3mS)	I ² t	93.0							V
Maximum Instantaneous Forward Voltage 									

Note 1 : Unit mounted on 2" x 3" x 0.25" Al. plate.

2. Unit mounted on P.C.B. 0.5" x 0.5" (12mmx12mm) Copper pads, 0.375"(9.5mm) lead length

Rating and Sharacteristic Curves (GBL005 Thru GBL10)

FIG 1 Maximum Derating Curve for Output Current

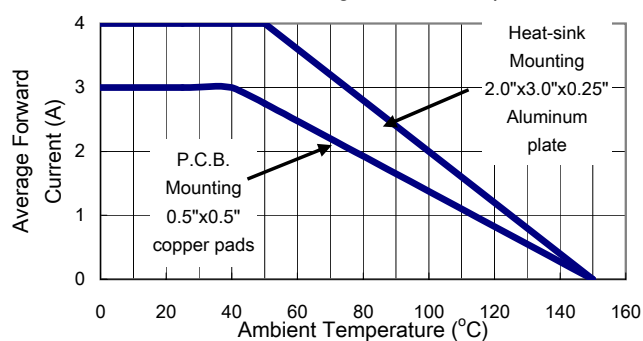


FIG 2 Maximum Forward Surge Current per Leg



FIG 3 Typical Reverse Characteristics per Leg

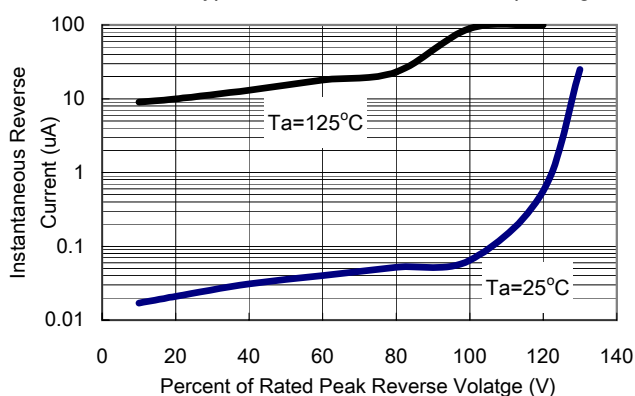


FIG 4 Typical Forward Characteristics per Leg.

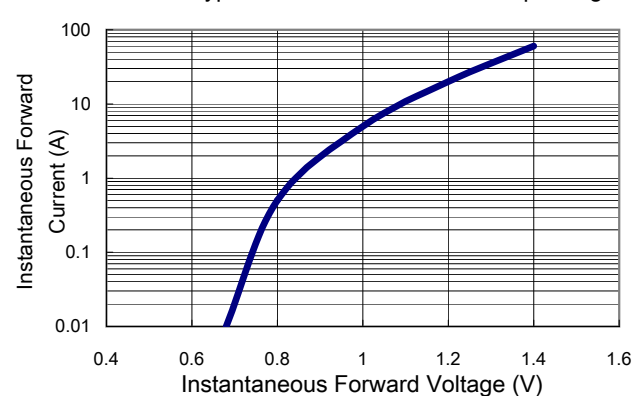


FIG 5 Typical Junction Capacitance

