



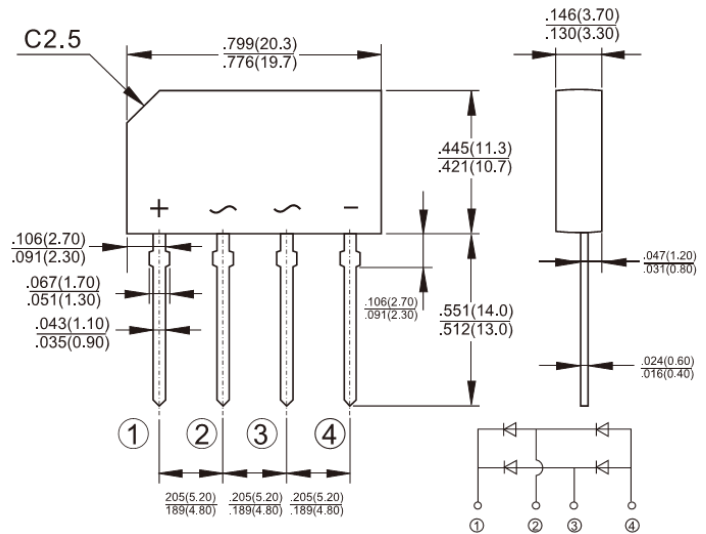
GBL005 - GBL10

Single Phase 4.0AMPS. Glass Passivated Bridge Rectifiers

GBL

Features

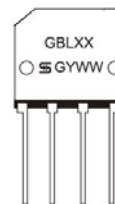
- UL Recognized File # E-326243
- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Typical IR less than 0.1uA
- High surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds at 5lbs., (2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode



Mechanical Data

- Case: Molded plastic body
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- Weight: 2.0 grams
- Mounting position: Any

Dimensions in inches and (millimeters)



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	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Unit
Maximum Repetitive 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 @T _C =50℃ @T _A =40℃	I _{F(AV)}	4.0 3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							A
Rating for fusing (t<8.3ms)	I ² T	93							A ² S
Maximum Instantaneous Forward Voltage (Note 1) @2.0A @4.0A	V _F	1.0 1.1							V
Maximum DC Reverse Current @T _A =25℃ at Rated DC Block Voltage @ T _A =125 ℃	I _R	5 500							uA
Typical Junction Capabitanace	C _j	95				40			pF
Typical Thermal Resistance	R _{θJA} R _{θJL} R _{θJC}	32 13 8							℃/W
Operating Temperature Range	T _J	- 55 to + 150							℃
Storage Temperature Range	T _{STG}	- 55 to + 150							℃

Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle

RATINGS AND CHARACTERISTIC CURVES (GBL005 THRU GBL10)

FIG.1 FORWARD CURRENT DERATING CURVE

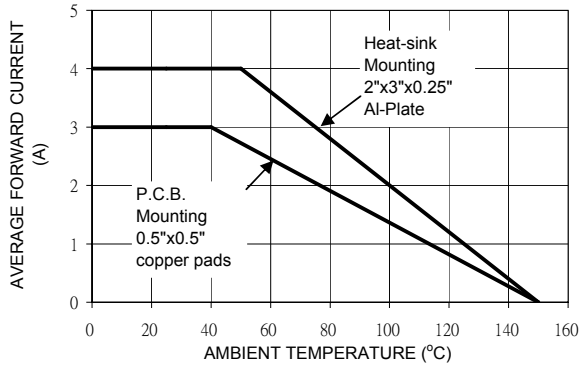


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

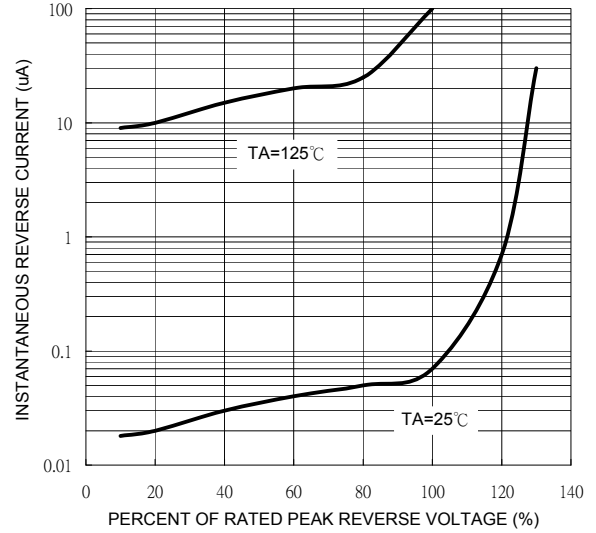


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

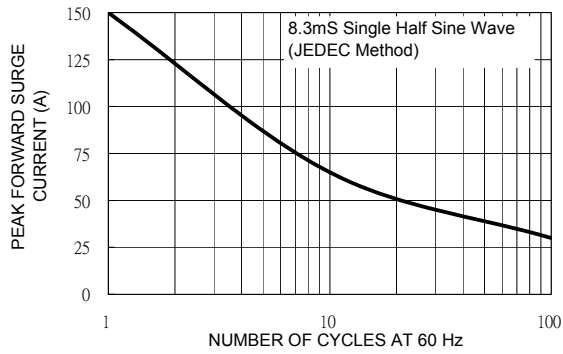


FIG. 4 TYPICAL JUNCTION CAPACITANCE

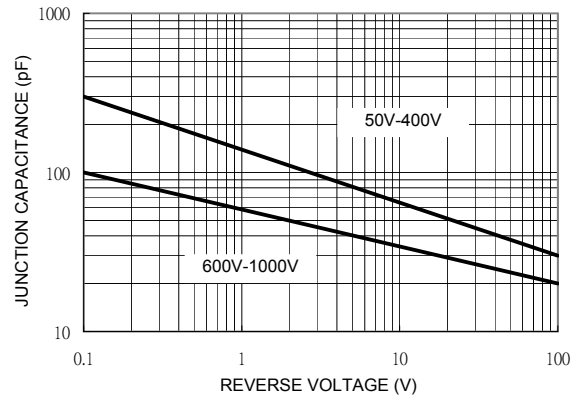


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

