

GBL2005 THRU GBL210

Single Phase 2.0 A Glass Passivated Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 2.0 Amperes

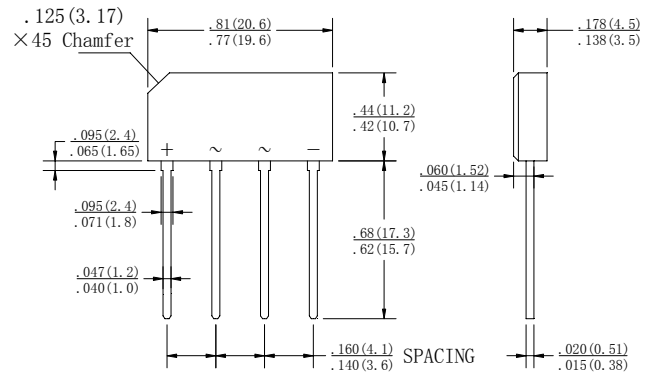
Features

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
250°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension

Mechanical Data

- Case: Molded plastic
- Lead: solder plated
- Polarity: As marked

GBL



Dimensions in inches and (millimeters)

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		GBL 2005	GBL 201	GBL 202	GBL 204	GBL 206	GBL 208	GBL 210	UNITS
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 = 80°C	I(AV)	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80							A
Maximum Instantaneous Forward Voltage @0.75A	V _F	1.0							V
Maximum DC Reverse Current @ T _A = 25°C rated DC blocking voltage per leg T _A = 125°C	I _R	5.0 300							μ A
Typical Thermal Resistance (Note)	R θ _{JA} R θ _{JC}	40 12							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTE:

Unit Mounted on P.C.B. at 0.375"(9.5mm) Lead Length and 0.5×0.5" (12×12mm) Copper Pads.

RATING AND CHARACTERISTIC CURVES GBL2005 THRU GBL210

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMMENT

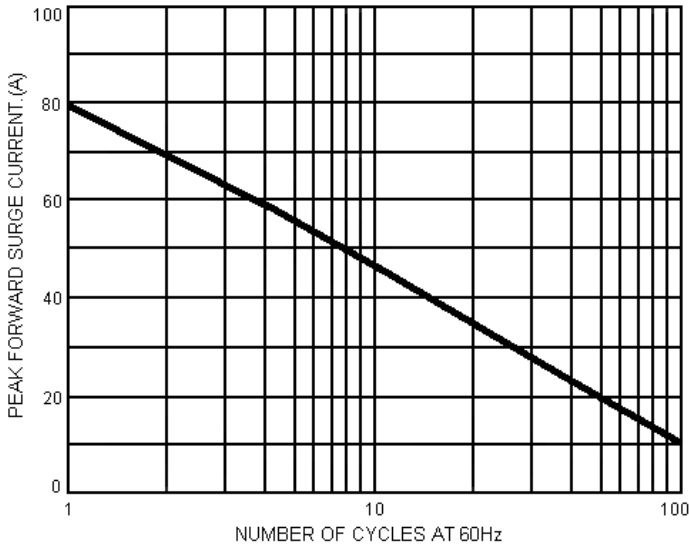


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

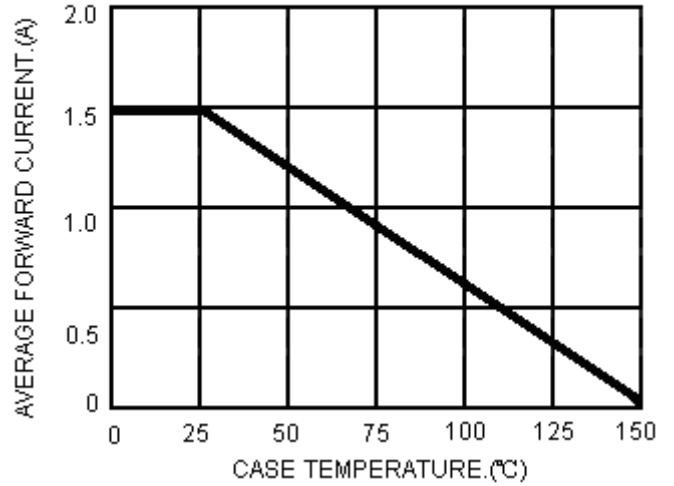


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

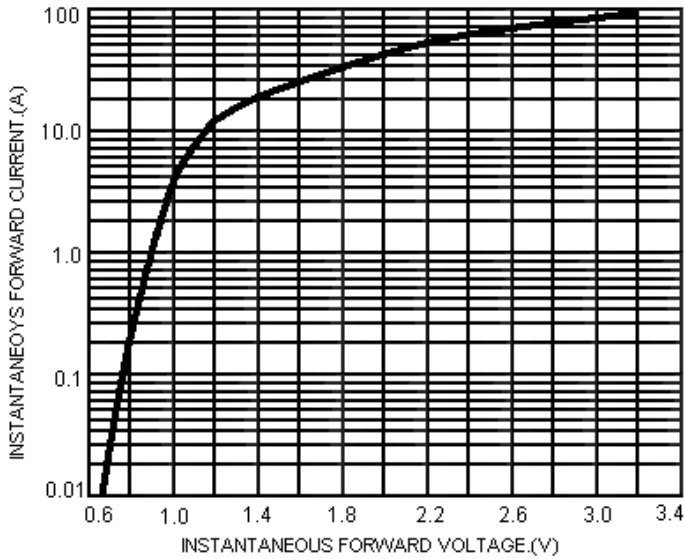


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

