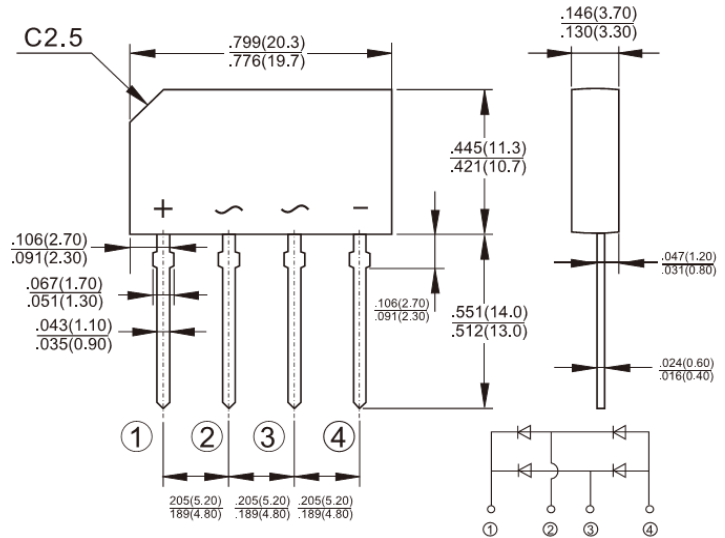




GBL201 - GBL207

Single Phase 2.0AMPS. Glass Passivated Bridge Rectifiers

GBL



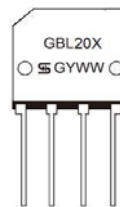
Features

- ✦ 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 / 10s / .375, (9.5mm) lead lengths.
- ✦ 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: 1.7 grams
- ✦ Mounting position: Any

Dimensions in inches and (millimeters)



Marking Diagram

- GBL20X = 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 201	GBL 202	GBL 203	GBL 204	GBL 205	GBL 206	GBL 207	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 @ $T_A=50^\circ C$	$I_{F(AV)}$	2							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	60							A
Maximum Instantaneous Forward Voltage (Note 1) @1.0A	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Block Voltage @ $T_A=25^\circ C$ @ $T_A=100^\circ C$	I_R	5 500							μA
Typical Junction Capabitance	C_j	25							pF
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	32 13							$^\circ C/W$
Operating Temperature Range	T_J	- 55 to + 150							$^\circ C$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^\circ C$

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

RATINGS AND CHARACTERISTIC CURVES (GBL201 THRU GBL207)

FIG. 1 FORWARD CURRENT DERATING CURVE

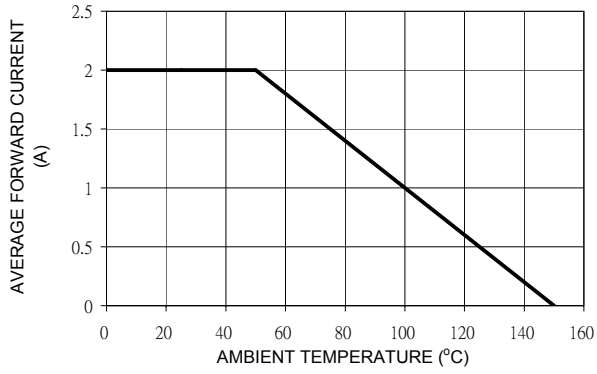


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

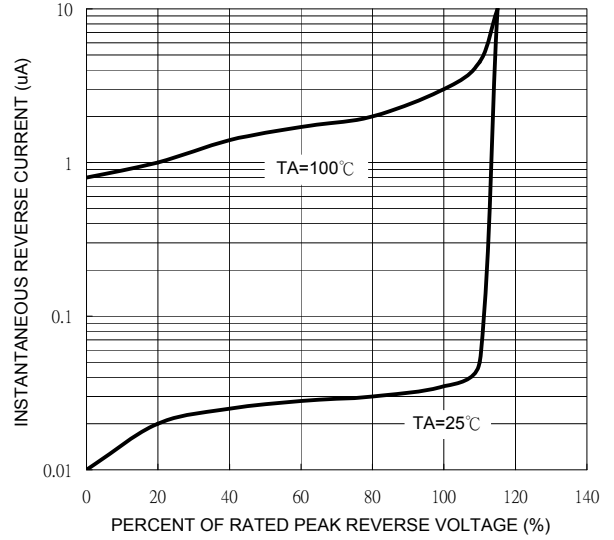


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

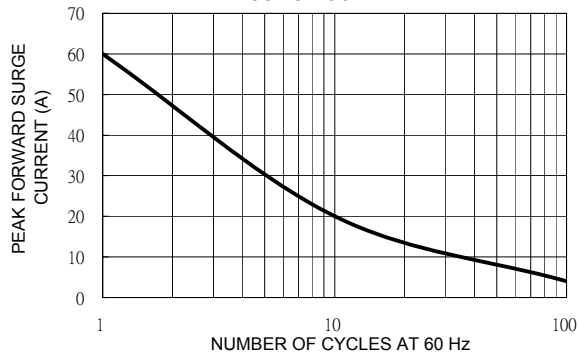


FIG. 4 TYPICAL JUNCTION CAPACITANCE

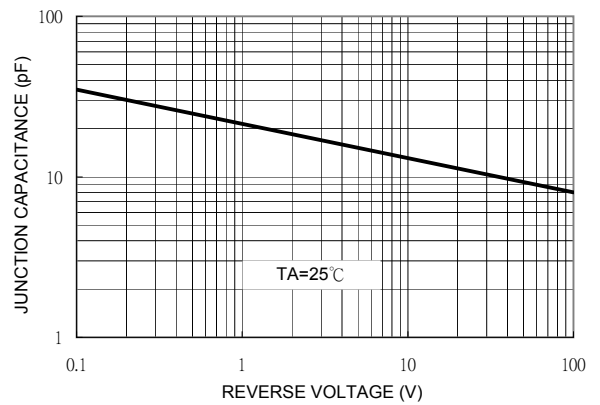


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

