



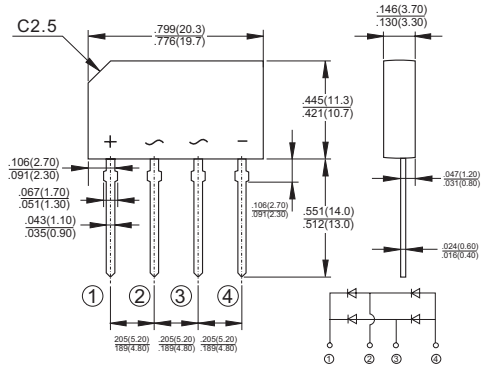
# GBL201 - GBL207

Single Phase 2.0 AMPS.  
Glass Passivated Bridge Rectifiers

## GBL

### Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated chip junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Typical IR less than 0.1μA
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.



### Mechanical Data

- ✧ Case: Molded plastic body.
- ✧ Terminals: Pure tin plated, Lead free. leads solderable per MIL-STD-750, Method 2026.
- ✧ Weight: 0.06 ounce, 1.7 grams
- ✧ Mounting position: Any

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	Symbol	GBL 201	GBL 202	GBL 203	GBL 204	GBL 205	GBL 206	GBL 207	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 Rectified Output Current @ 50 °C Ambient	$I_{(AV)}$	2.0							A
Peak One Surge Current Overload Current	$I_{FSM}$	60							A
Maximum Instantaneous Forward Voltage @ 1.0A	$V_F$	1.00							V
Maximum DC Reverse Current @ $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100\text{ }^\circ\text{C}$	$I_R$	5.0 500							μA μA
Typical Junction Capacitance Per Leg at 4.0V, 1MHz	$C_j$	25							pF
Typical Thermal Resistance Per Leg (Note) (Note)	$R_{\theta JA}$ $R_{\theta JL}$	32 13							°C/W
Operating Temperature Range	$T_J$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

Notes: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B with 0.47 x 0.47" (12 x 12mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES (GBL201 THRU GBL207 )

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

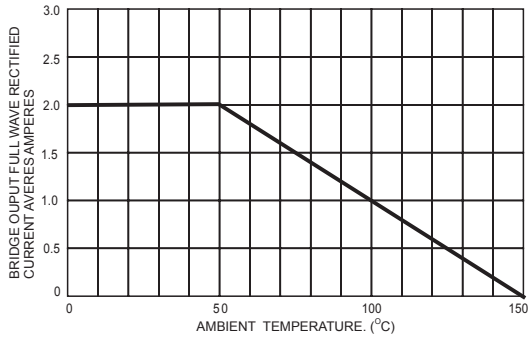


FIG.2- TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

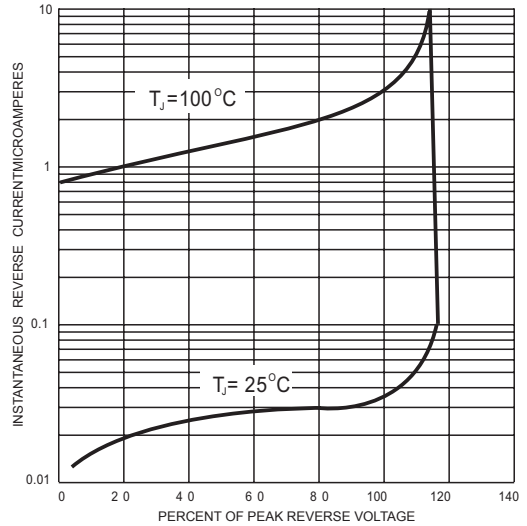


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

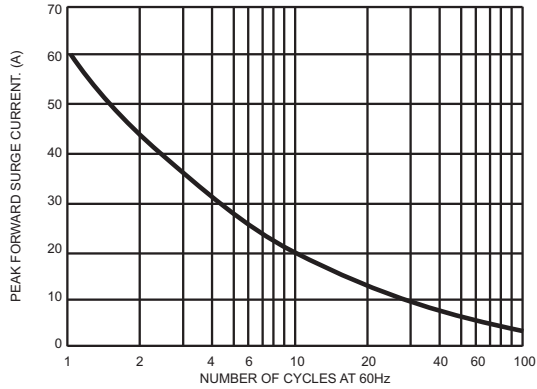


FIG.4- TYPICAL JUNCTION CAPACITANCE

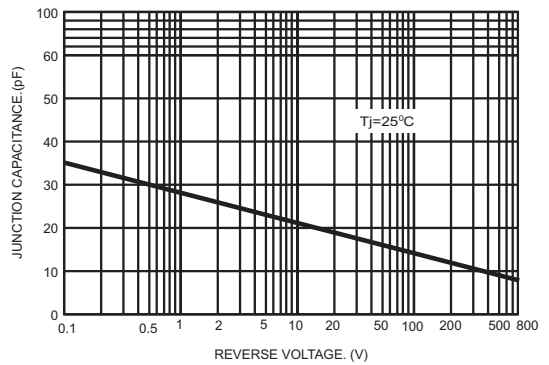


FIG.5-TYPICAL FORWARD CHARACTERISTICS

