GBL201 THRU GBL207

Single Phase 2.0 AMPS. Glass Passivated Bridge Rectifiers

Voltage Range
50 to 1000 Volts
Current
2.0 Amperes

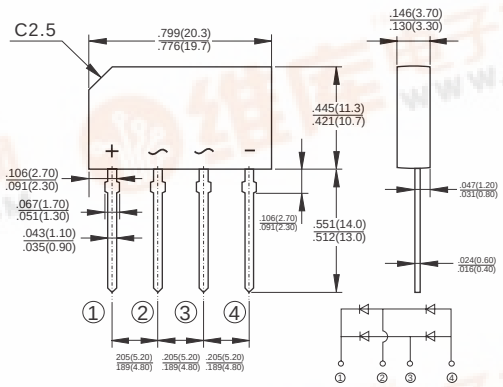
Features

- ✧ 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: Plated leads solderable per MIL-STD-750, Method 2026.
- ✧ Weight: 0. 06 ounce, 1.7 grams
- ✧ Mounting position: Any

GBL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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℃ 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℃ at Rated DC Blocking Voltage @ T_A=100℃	I_R	5.0 500							uA uA
Typical Thermal Resistance Per Leg (Note)	$R\theta_{JA}$ $R\theta_{JL}$	32 13							℃/W
Typical Junction Capacitance Per Leg at 4.0V, 1MHz	Cj	25							pF
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to + 150							℃

Notes Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B with 0.4" x 0.4" (10mm x 10mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (GBL201 THRU GBL207)

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

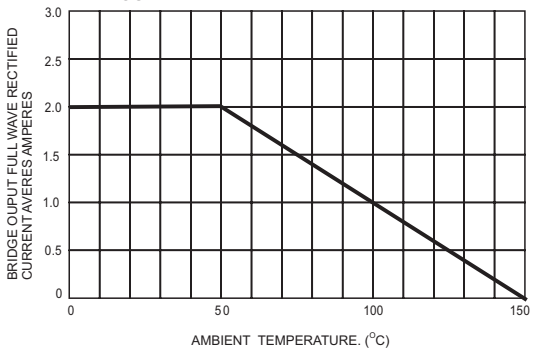


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

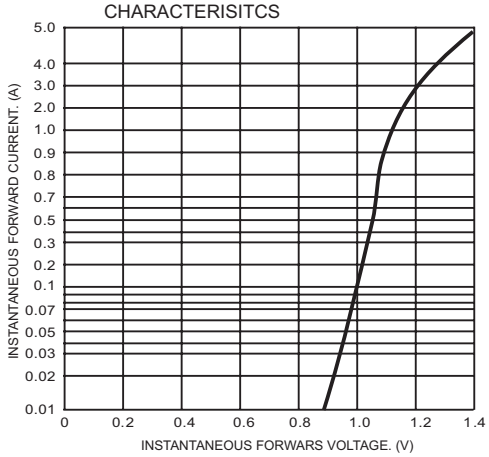


FIG.3- TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

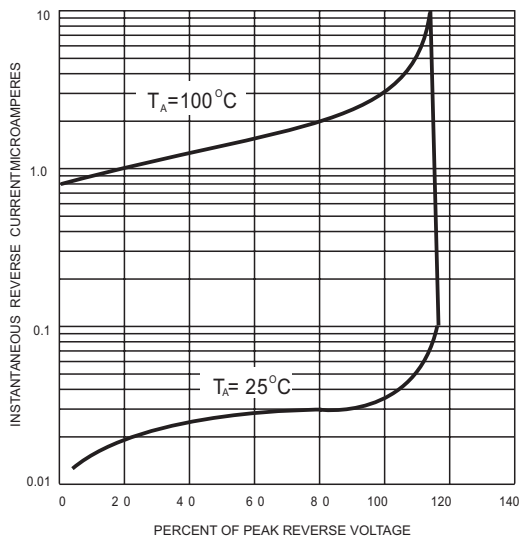


FIG.4- MAXIMUM NON-REPETITEVE PEAK FORWARD SURGE CURRENT