

Green Products

GBU8005G-GBU810G SINGLE PHASE 8.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

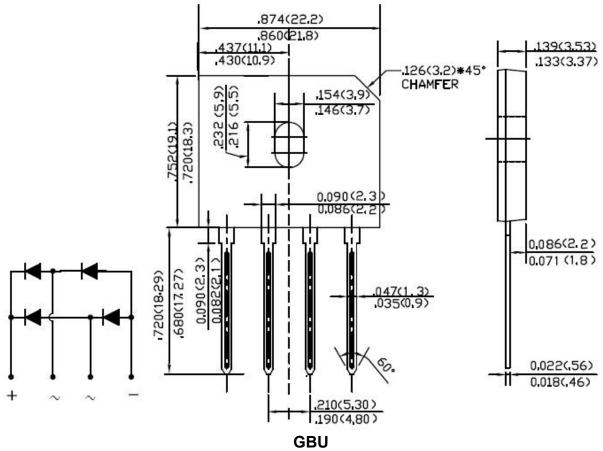
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data:

- Case: GBU, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/mm



MARKING, MOLDING RESIN

Marking for Type Number, 1st row SSG YYWWL, 2nd row Type Number Where YY is the manufacture year WW is the manufacture week code

L is the wafer's Lot Number

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Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Maximum Ratings:

Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current (Note 1) @Tc = 90°C	lo	8.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							Α

Electrical Characteristics:

Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Unit
Forward Voltage (per element) $@I_F = 4A$, $T_A = 25^{\circ}C$ $@I_F = 8A$, $T_A = 25^{\circ}C$	V _{FM}	1.0 1.1							V
	I _{RM}	5.0 500							μΑ
I ² t Rating for fusing (t <8.3ms)	l ² t	166							A ² s
Typical Junction Capacitance(per leg) (Note 2)	Сл	70						pF	

Thermal-Mechanical Specifications:

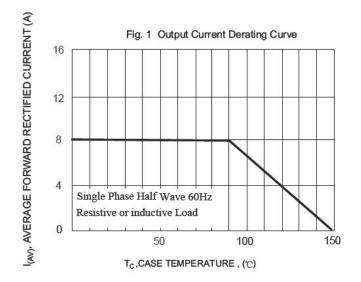
Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Unit
Typical Thermal Resistance (per leg) (Note 3)	R _{0JA} R _{0JL}	30.9 7.3							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Case Style	GBU								

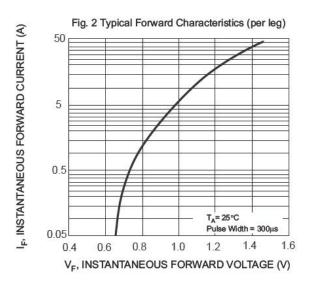
Note: 1.Mounted on glass epoxy PC board with 1.3mm² solder pad.

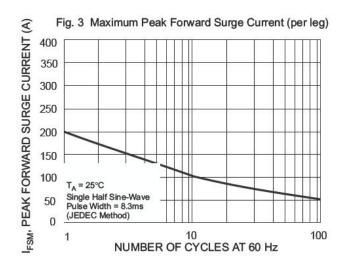
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3.Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heat sink.
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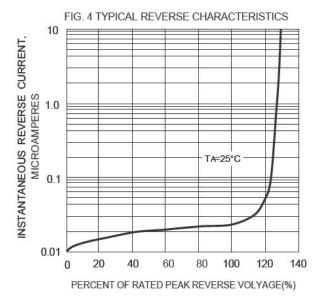


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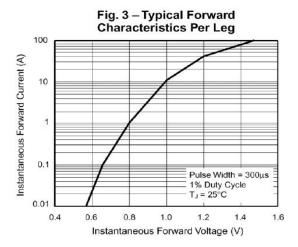
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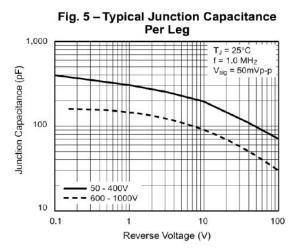


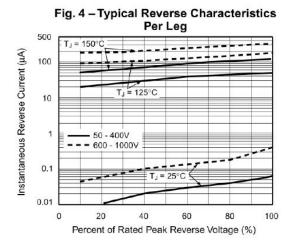
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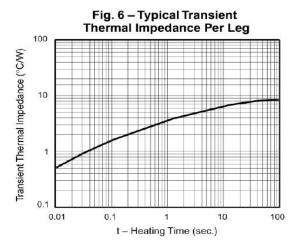
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