

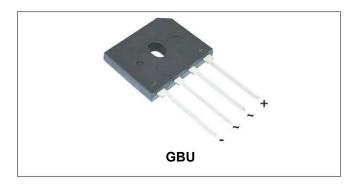
GBU8005G THRU GBU810G

RoHS

Technical Data Data Sheet N1919, Rev. A

GBU8005G THRU GBU810G

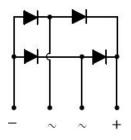
Single-Phase 8.0A Glass Passivated Bridge Rectifier



Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

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

Maximum Ratings:@T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Units
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) $@T_c = 90^{\circ}C$	lo	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)IFSM200			А						

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Electrical Characteristics:@T_A=25°C unless otherwise specified

Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Units
Forward Voltage (per element) @I _F =4A @I _F =8A	V _F				1.0 1.1				v
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _{RM}				5.0 500				μA
I ² t Rating for fusing (t <8.3ms)	l²t	166					A ² s		
Typical Junction Capacitance(per leg) (Note 2)	CJ				70				pF

* Pulse width < 300 µs, duty cycle < 2%

Thermal-Mechanical Specifications:@T_A=25°C unless otherwise specified

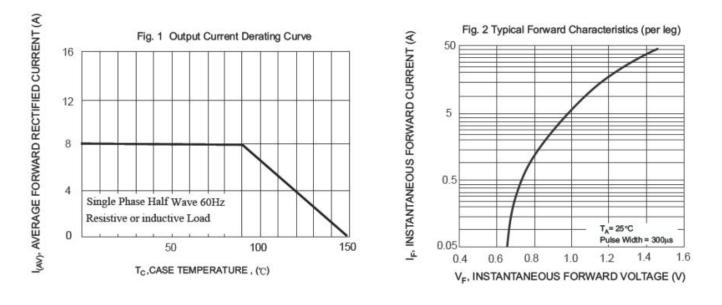
Type Number	Symbol	GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	Units
Typical Thermal Resistance (per leg) (Note 3)			°C/W						
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150						°C	

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.

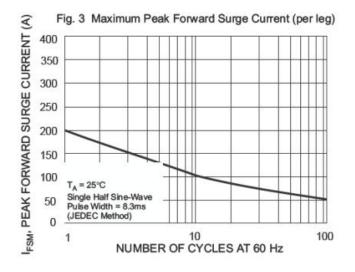
Ratings and Characteristics Curves

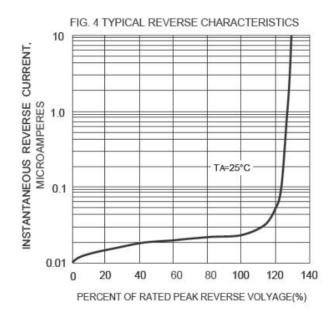










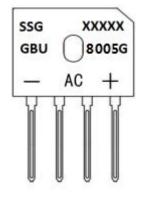


Ordering Information

Device	Package	Plating	Shipping
GBU8005G THRU GBU810G	GBU(Pb-Free)	Pure Sn	20pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where	XXXXX	is	YYWWL

SSG YY WW L	= SSG = Year = Week = Lot Number
L GBU8005G	= Type Number

Cautions: Molding resin Epoxy resin UL:94V-0

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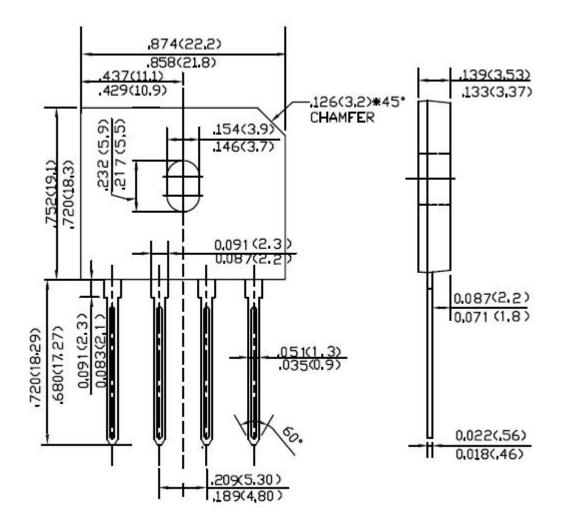


GBU810G

THRU

GBU8005G

Mechanical Dimensions GBU (Inches/Millimeters)









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