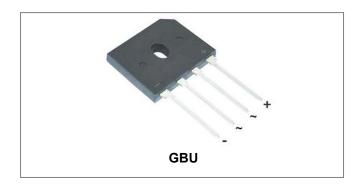






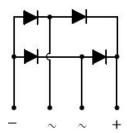
GBU6005G THRU GBU610G Single-Phase 6.0A Glass Passivated Bridge Rectifier



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 6005G	GBU 601G	GBU 602G	GBU 604G	GBU 606G	GBU 608G	GBU 610G	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 _A = 40°C	lo	6.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150			А				

- China Germany Korea Singapore United States
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Electrical Characteristics:@TA=25°C unless otherwise specified

Type Number	Symbol	GBU 6005G	GBU 601G	GBU 602G	GBU 604G	GBU 606G	GBU 608G	GBU 610G	Units
Forward Voltage (per element)	V _F				1.0 1.1				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 500			μA				
Typical Junction Capacitance(per leg) (Note 2)	Сл	65						pF	

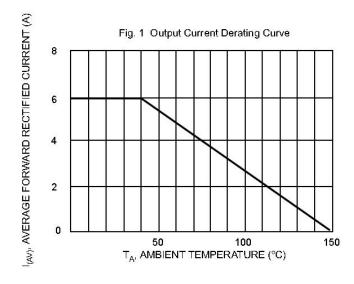
^{*} Pulse width < 300 µs, duty cycle < 2%

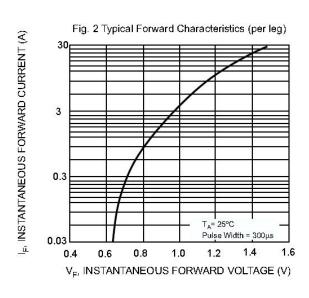
Thermal-Mechanical Specifications:@T_A=25°C unless otherwise specified

Type Number	Symbol	GBU 6005G	GBU 601G	GBU 602G	GBU 604G	GBU 606G	GBU 608G	GBU 610G	Units
Typical Thermal Resistance (per leg)	R _{θJA} R _{θJL}	17 2.2					°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.

Ratings and Characteristics Curves



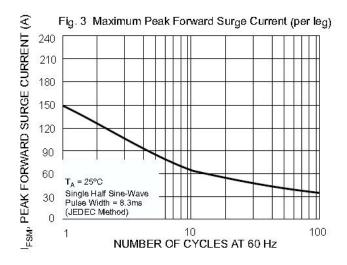


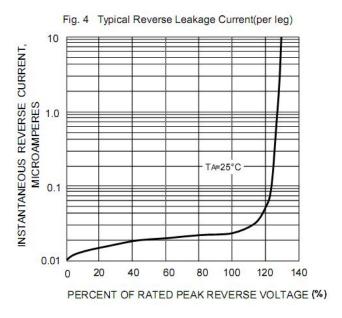
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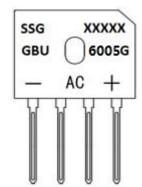


Ordering Information

Device	Package	Plating	Shipping		
GBU6005G THRU GBU610G	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
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

 GBU6005G
 = Type Number

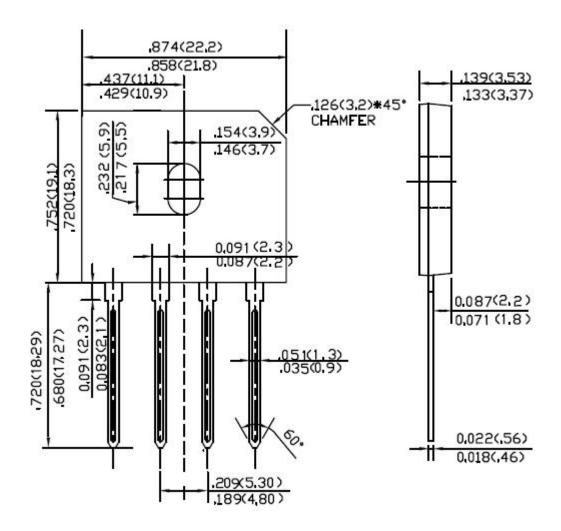
Cautions: Molding resin Epoxy resin UL:94V-0







Mechanical Dimensions GBU (Inches/Millimeters)



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