

Green Products

GBU4005-GBU410

Single-Phase 4.0A Glass Passivated Bridge Rectifier

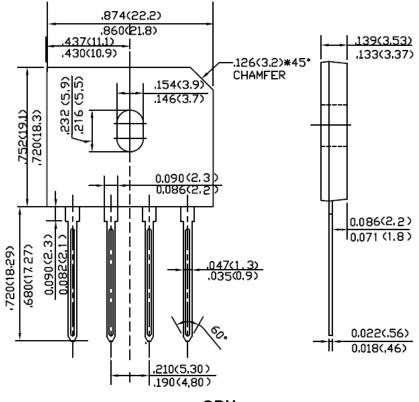
Features:

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

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

Mechanical Dimensions: In Inches/mm



GBU

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 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{DC} \end{array}$	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	Io	4.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80							Α

Electrical Characteristics:

Type Number	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
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						μΑ	
Typical Junction Capacitance(per leg) (Note 2)	CJ	65					pF		

Thermal-Mechanical Specifications:

Type Number	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Typical Thermal Resistance (per leg)	$R_{ heta JA} \ R_{ heta JL}$	20 2.2							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							
Case Style	GBU								

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

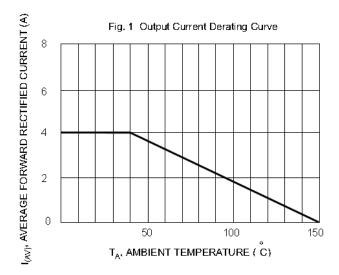
^{2.} Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

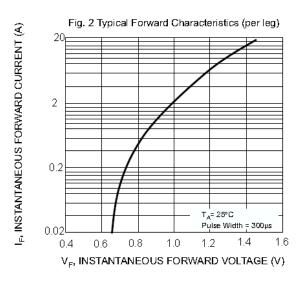
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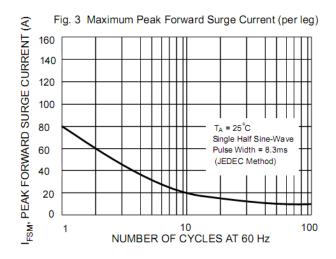


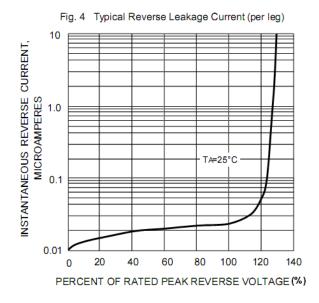


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