

GBU10005-GBU1010

Technical Data Data Sheet N1770, Rev. - Green Products

GBU10005-GBU1010

Single-Phase 10.0A Glass Passivated Bridge Rectifier

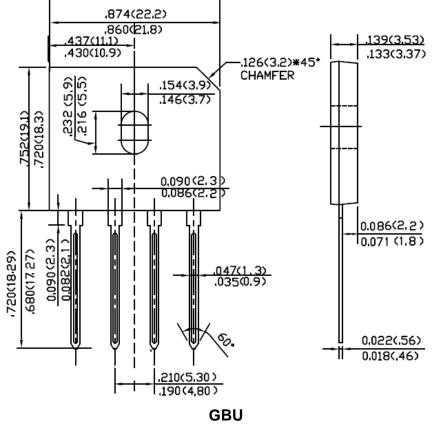
Features:

- 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



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 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	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) $@T_A = 40^{\circ}C$	Ι _ο	10.0							
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							А

Electrical Characteristics:

Type Number	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Forward Voltage (per element) @I _F =5A @I _F =10A	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
Typical Junction Capacitance(per leg) (Note 2)	CJ	70						pF	

Thermal-Mechanical Specifications:

Type Number	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Typical Thermal Resistance (per leg)	$R_{_{ extsf{ heta}JA}} \ R_{_{ hetaJL}}$	25 2.2							
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.

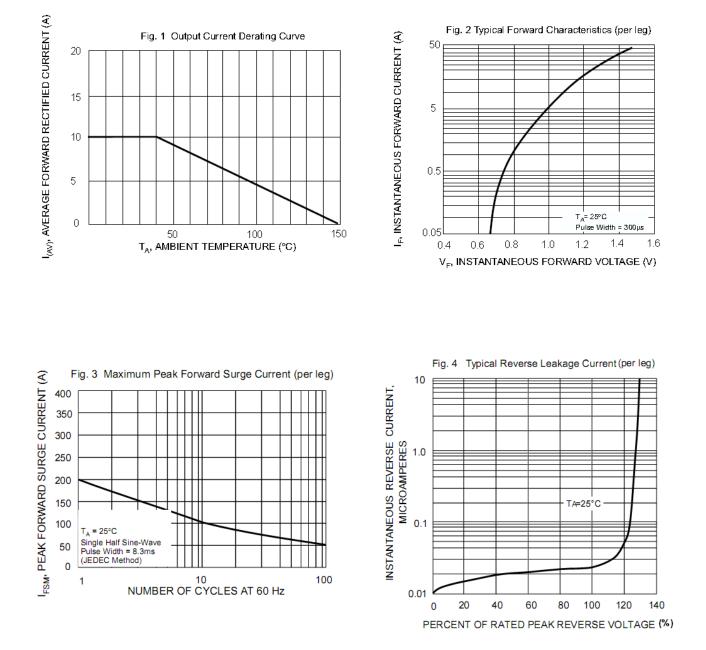
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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