



GBU15005 THRU GBU1510

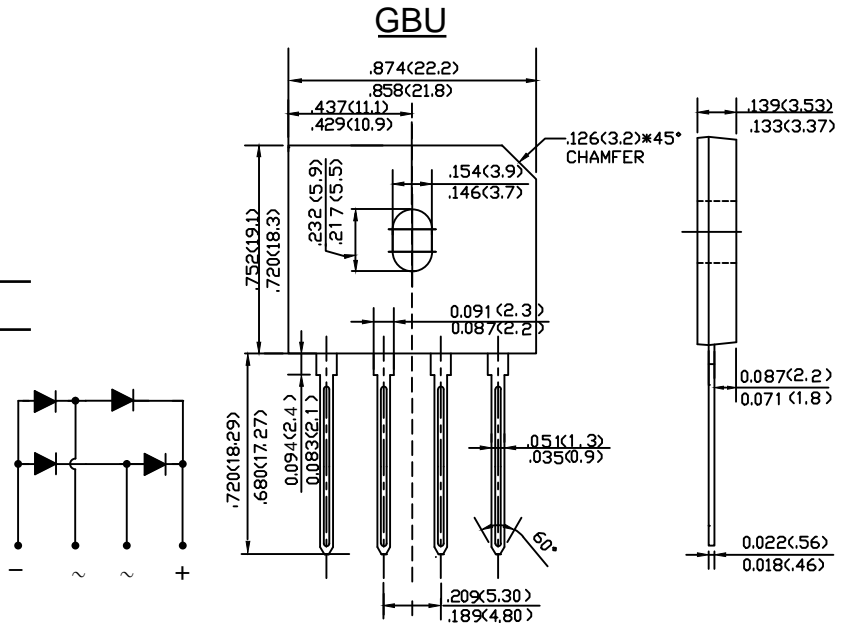
SINGLE PHASE 15.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

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: G B U , 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



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

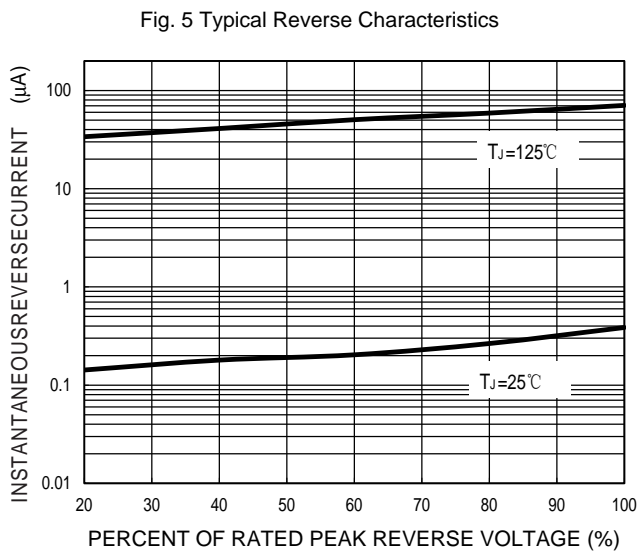
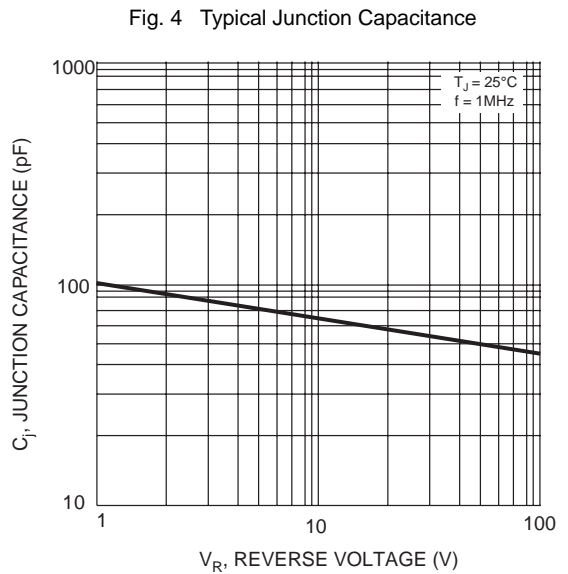
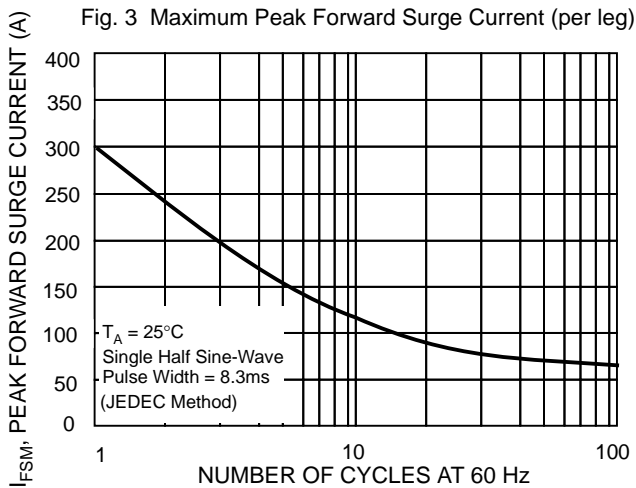
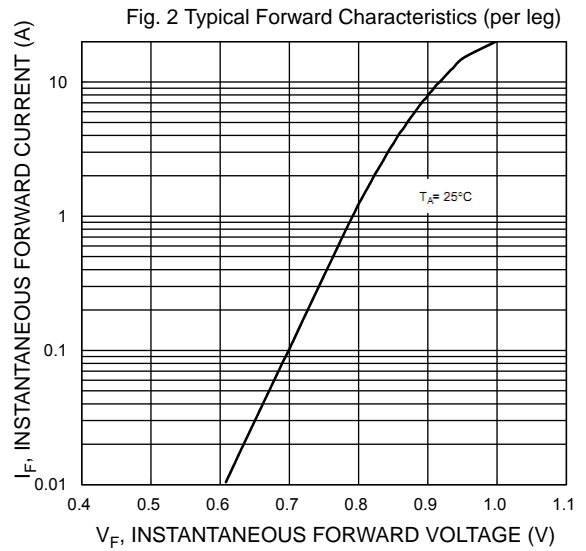
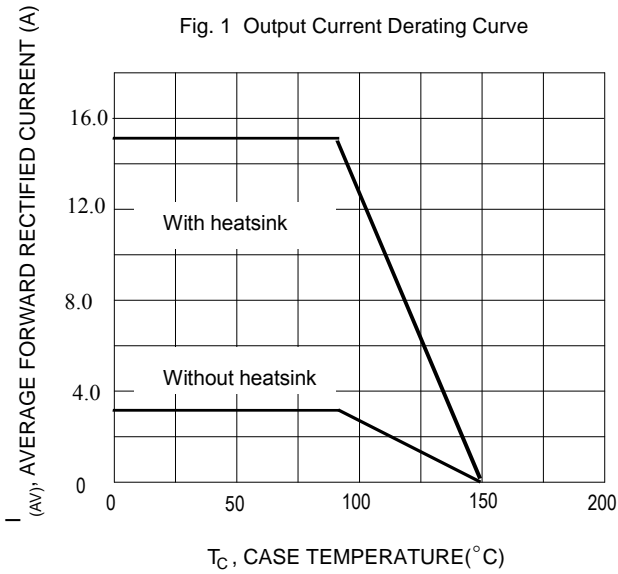
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (with heatsink) @T _c =90°C (without heatsink)	$I_{F(AV)}$	15.0 3.3							A
Non-Repetitive Peak Forward Surge Current @T _J =25°C 8.3ms Single half sine-wave superimposed @T _J =125°C on rated load (JEDEC Method)	I_{FSM}	300 240							A
Non-Repetitive Peak Forward Surge Current 1 ms Single half sine-wave @T _J =125°C superimpose on rated load (JEDEC Method)	I_{FSM}	600 480							A
Forward Voltage per element @I _F =7.5A	V_{FM}	1.0							V
Peak Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =125°C	I_R	5.0 200							uA
I ² t Rating for fusing (t <8.3ms)	I^2t	373.5							A ² s
Dielectric Strength	V _{ids}	2500							V
The proposed installation torque Max torque	T _{or}	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 1)	C_J	75							pF
Typical Thermal Resistance	R _{θJA}	28							°C/W
	R _{θJC}	8.7							
	R _{θJL}	5.3							
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150							°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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