



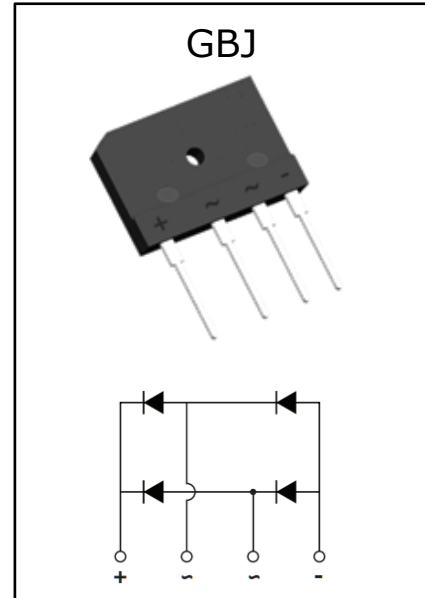
Single Phase 15Amp Glass passivated Bridge Rectifier

Features

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C / 10 seconds at terminals

Mechanical Data

- **Case** : GBJ (Molded plastic body)
- **Terminals** : Lead solderable per MIL-STD-750, Method 2026
- **Polarity** : Polarity symbol marking on body
- **Mounting Position** : Any



Maximum Ratings Characteristics

TA = 25°C unless otherwise specified

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbol	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	15							A
Peak Forward Surge Current 8.3ms Single Half sine Wave Superimposed on Rated Load	I_{FSM}	220							A
Rating for fusing (t=8.3ms, Ta=25°C)	I^2t	200.86							A ² s
Maximum Instantaneous Forward Voltage at 7.5A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _a = 25°C	5							uA
	T _a = 125°C								
Typical junction capacitance (Note 1)	C_J	60							pF
Between junction and ambient, without heatsink	$R_{\theta JA}$	12							°C/W
Between junction and case, with heatsink	$R_{\theta JC}$	1.2							°C/W
Operating Junction temperature Range	T_J	-55 ~ +150							°C
Storage Temperature Range	T_{STG}	-55 ~ +150							°C

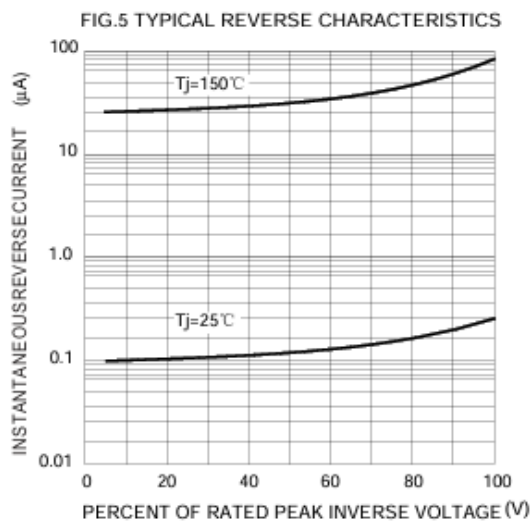
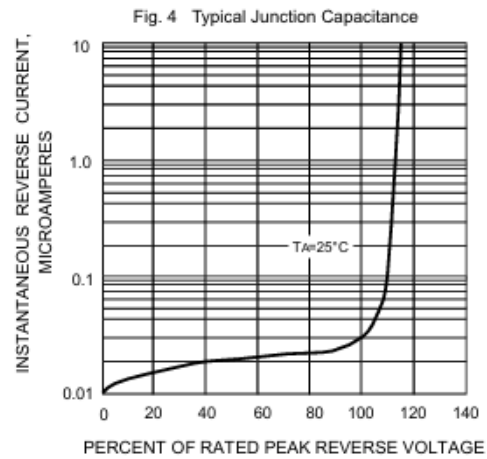
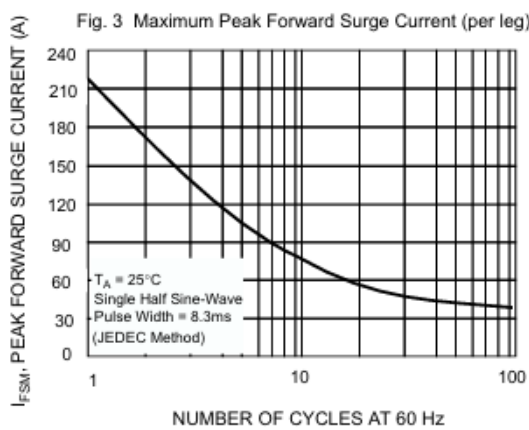
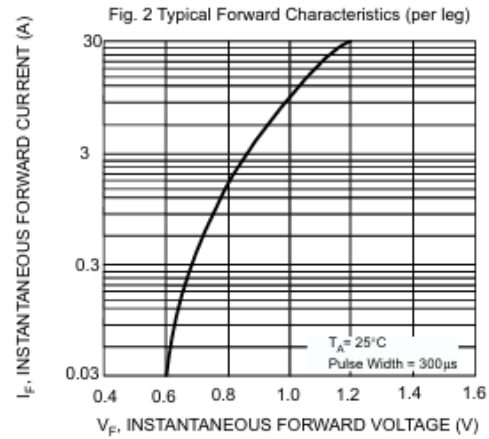
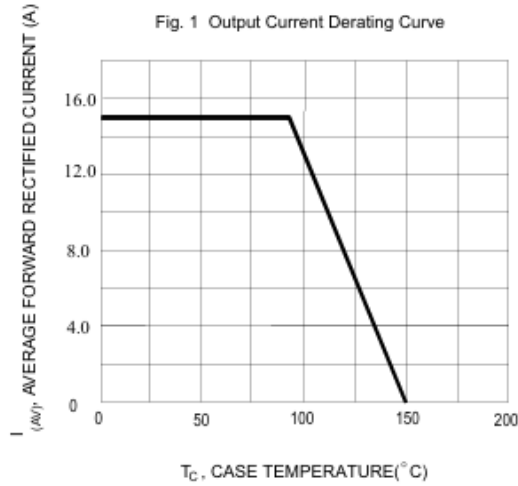
Note

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.



Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise specified)

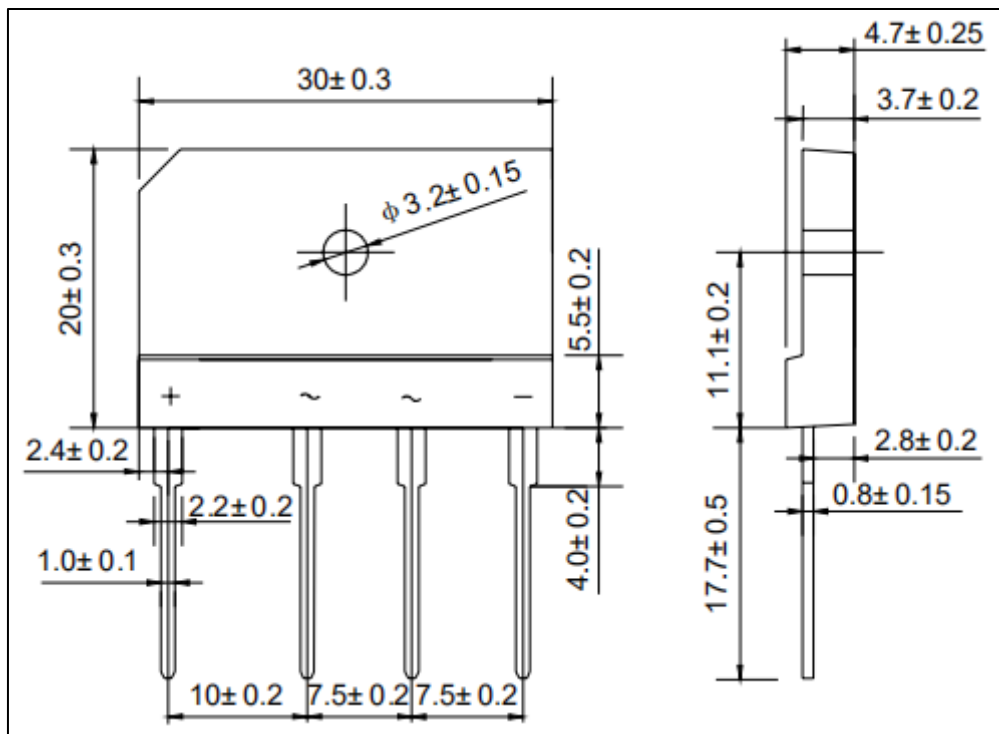




Package Outline

GBJ

Unit : mm



Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
GBJ15005 ~ GBJ1510	GBJ	Tube	Sn	Free	Tube : 20ea Inner : 200ea MOQ : 2,000ea



Revision History

No	Date	Contents
0	2022-04-12	Initial Brief Datasheet Release

<http://www.apsemi.com>

IMPORTANT NOTICE

AP Semiconductor co, Ltd reserves the right to make changes without further notice to any products or specifications herein. AP Semiconductor co, Ltd does not assume any responsibility for use of any its products for any particular purpose, nor does AP Semiconductor co, Ltd assume any liability arising out of the application or use of any its products or circuits. AP Semiconductor co, Ltd does not convey any license under its patent rights or other rights nor the rights of others.

AP Semiconductor Co., Ltd

Contact. **Tel** 82.70.4693.2299 **FAX** 82.70.4000.4009

E-mail: sales@apsemi.com

© 2015 AP semiconductor Co., Ltd. –Printed in KOREA –All Rights Reserved.