



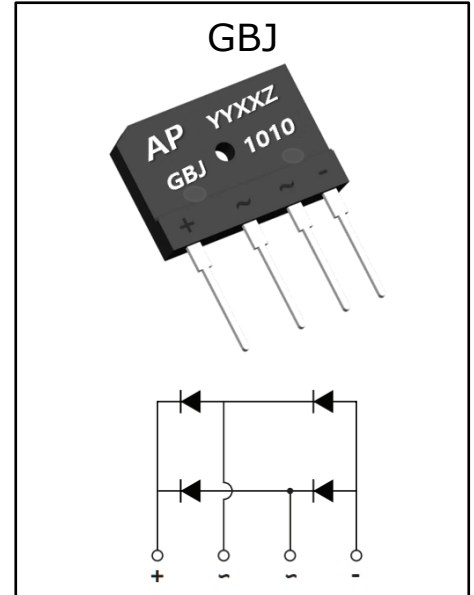
Single Phase 10Amp Glass passivated Bridge Rectifier

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 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	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	$I_{(AV)}$	10							A	
Peak Forward Surge Current 8.3ms Single Half sine Wave Superimposed on Rated Load	I_{FSM}	200							A	
Rating for fusing (t=8.3ms, Ta=25°C)	I^2t	166							A ² s	
Maximum Instantaneous Forward Voltage at 5A	V_F	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _a = 25°C	I_R							5	uA
	T _a = 125°C								500	
Typical junction capacitance (Note 1)	C_J	55							pF	
Between junction and ambient, without heatsink	$R_{\theta JA}$	14							°C/W	
Between junction and case, with heatsink	$R_{\theta JA}$	2.3							°C/W	
Operating Junction temperature Range	T_J	-55 ~ +150							°C	
Storage Temperature Range	T_{STG}	-55 ~ +150							°C	

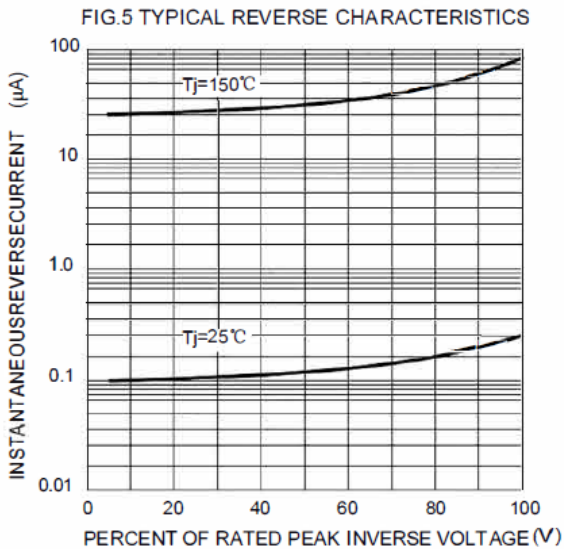
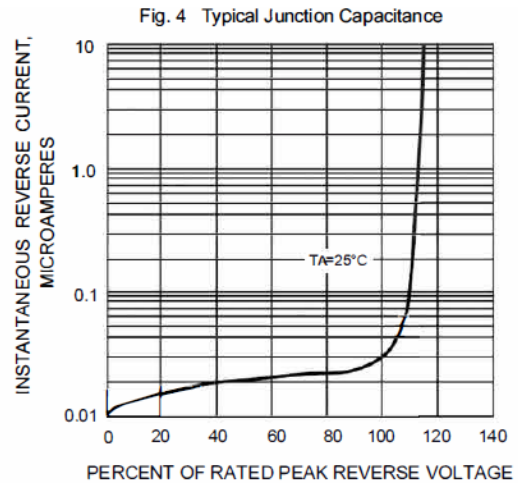
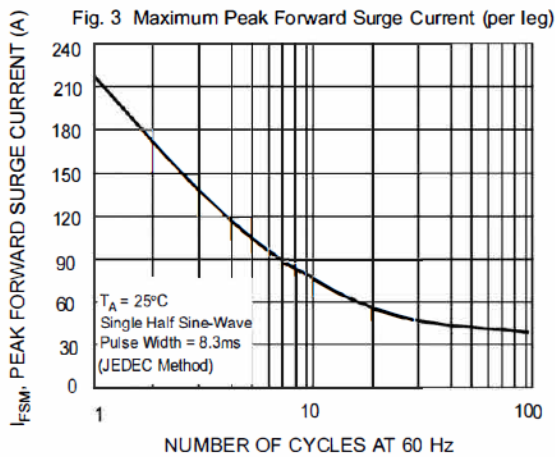
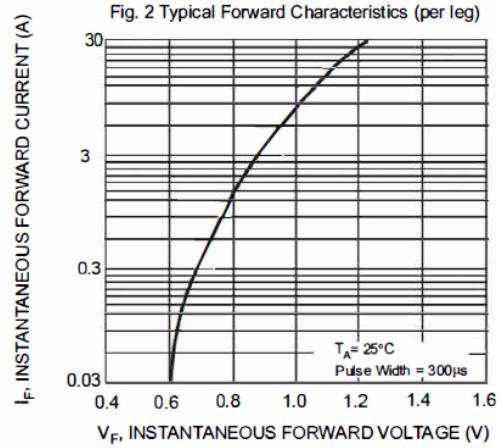
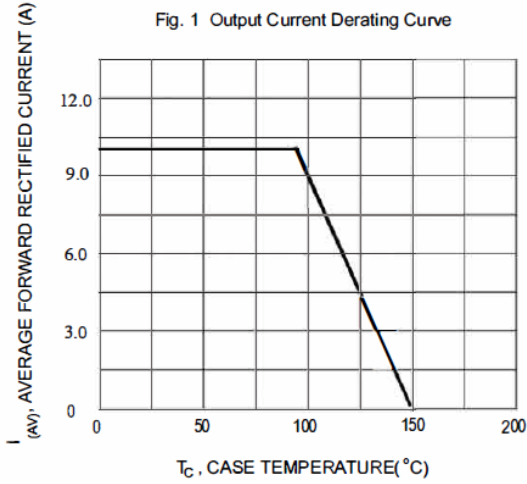
Note

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

(TA = 25°C unless otherwise specified)

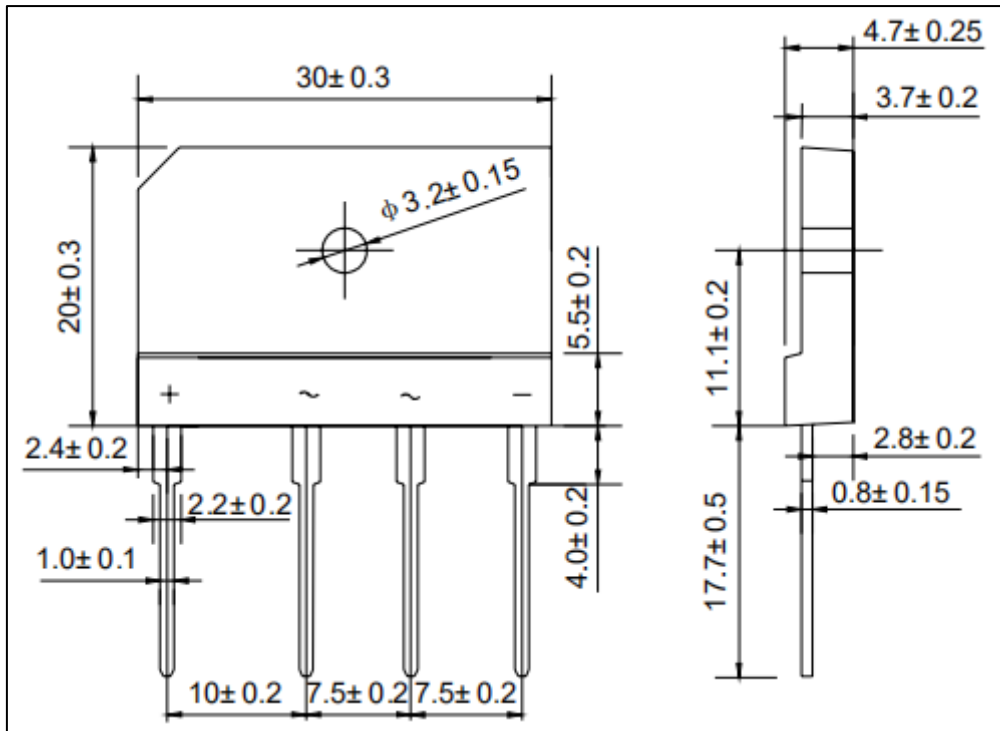




Package Outline

GBJ

Unit : mm



Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
GBJ10005 ~ GBJ1010	GBJ	Tube	Sn	Free	Tube : 20ea Inner : 200ea MOQ : 2,000ea



Revision History

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

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Contact. Tel [82.70.4693.2299](tel:82.70.4693.2299) FAX [82.70.4000.4009](tel:82.70.4000.4009)

E-mail: sales@apsemi.com

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