



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER GBJ35005 ~ GBJ3510

Single Phase Glass Passivated Bridge Rectifier

Features

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed:
260°C / 10 second, 0.375" (9.5mm) lead length at 5 lbs, (2.3 kg) tension



Mechanical Data

Case:	Molded Plastic
Polarity	As Marked
Terminals:	Solder Plated
Mounting torque	/
Mounting position:	/
Weight:	/

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

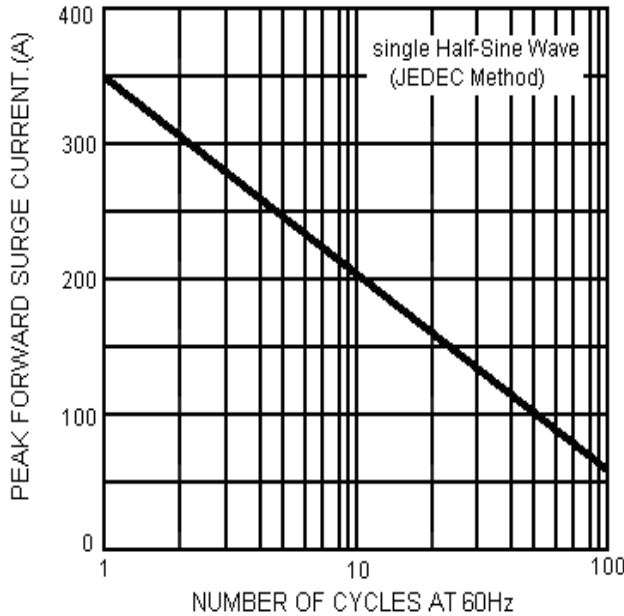
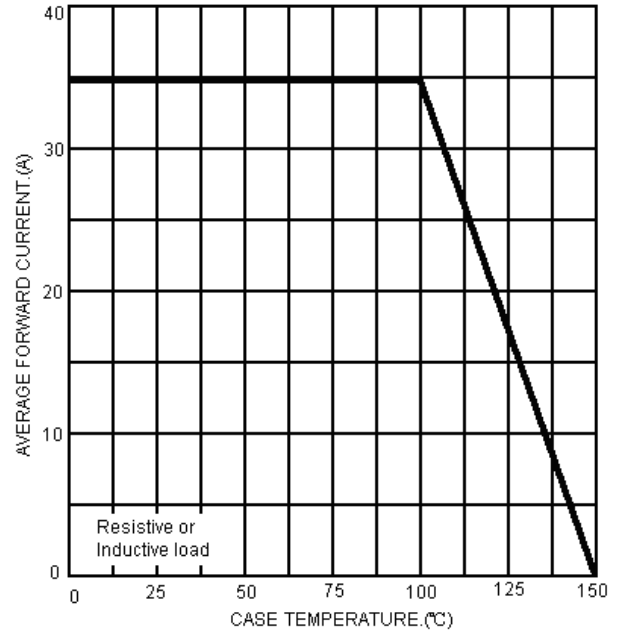
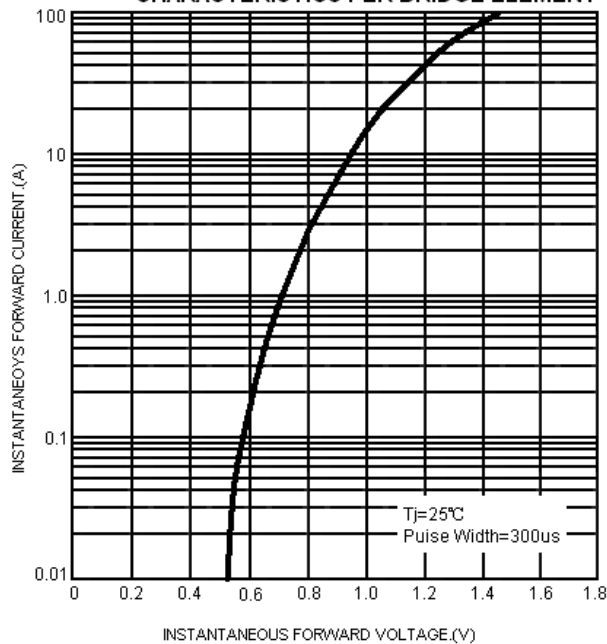
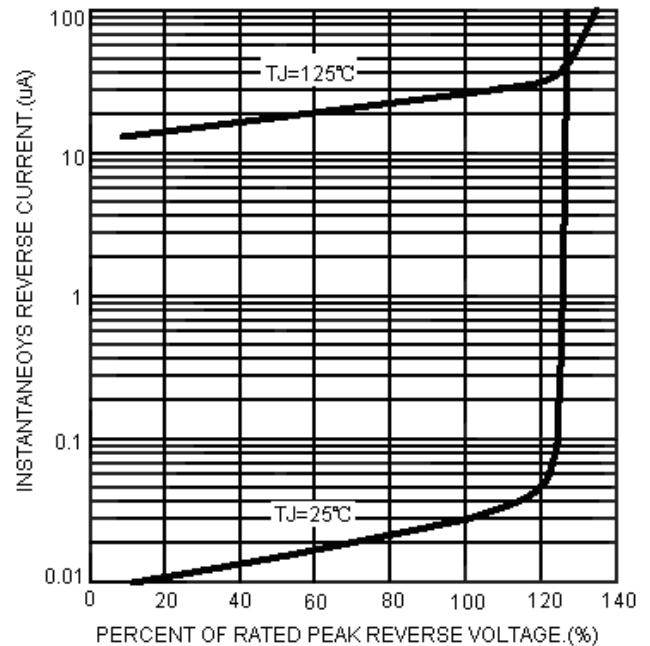
Symbol	Description	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current, 0.06"(1.5mm)	35							A	At TC= 100°C
IFSM	Peak Forward Surge Current	350							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	/							A2s	/

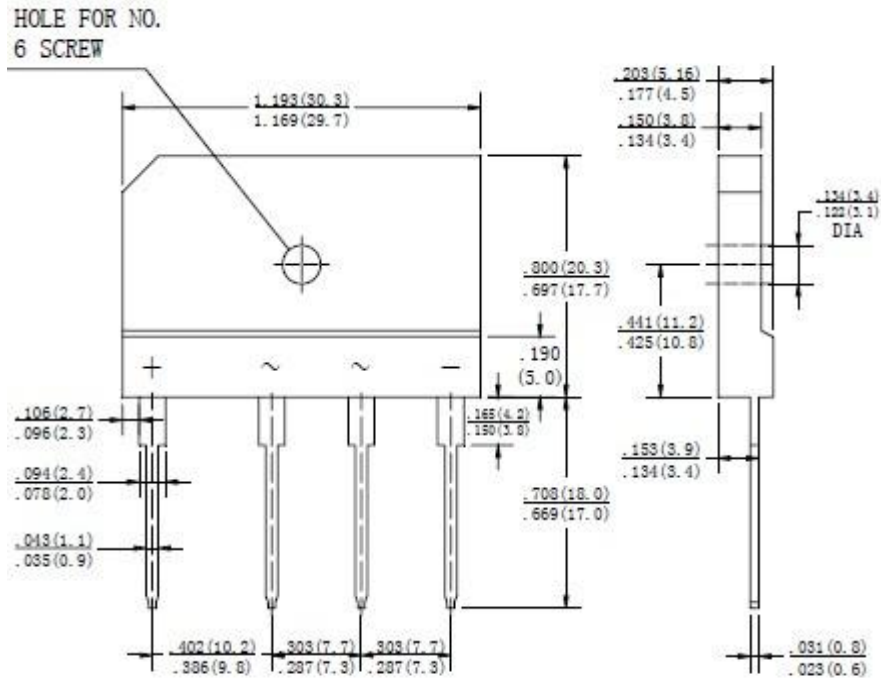
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.1							V	Drop per Bridge element 17.5A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	10							µA	TA=25°C
		350								Tc=125°C
CJ	Typical Junction Capacitance	/							pF	/
Rθ-Ja	Typical Thermal Resistance	22							°C/W	Note 2
Rθ-Jc	Typical Thermal Resistance	1.0							°C/W	Note 1

Note:

1. Device Mounted on 220X220X1.6mm Thick Al Plate Heatsink
2. Device Mounted on P.C.B Without Heat Sink

GBJ35005 ~ GBJ3510
RATINGS AND CHARACTERISTIC CURVES GBJ35005 THRU GBJ3510
FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMMENT

FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT


GBJ35005 ~ GBJ3510
Dimensions in inches (mm)


Dimensions in inches and (millimeters)

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