



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER GBL005 ~ GBL10

Single Phase Glass Passivated Bridge Rectifier

Features

- Plastic package has UL flammability Classification 94V-0
- Glass passivated chip junction
- High case dielectric strength of 1500 Vrms
- High surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375"(9.5mm) lead length



Case Type GBL

Mechanical Data

Case:	Molded Plastic body
Polarity	/
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Mounting torque	/
Mounting position:	Any
Weight:	0.15 ounce, 4.0 gram

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

Symbol	Description	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	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	4.0/3.0							A	At TC= 50°C (note1) At TC= 50°C (note 2)
IFSM	Peak Forward Surge Current	150							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	93							A2s	T<8.3mS

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

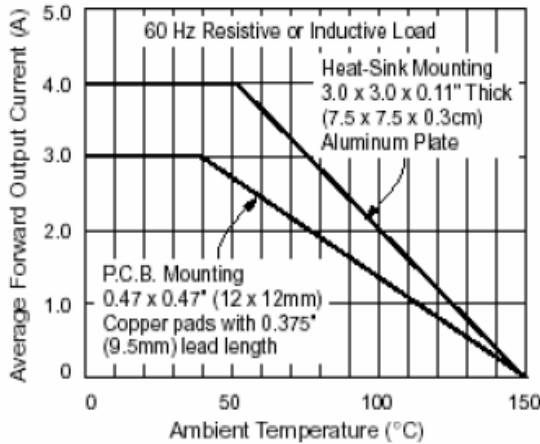
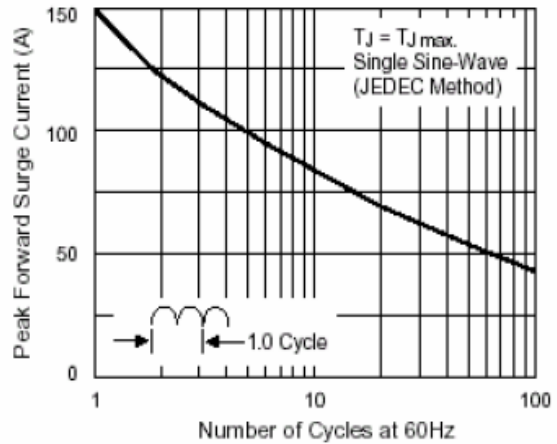
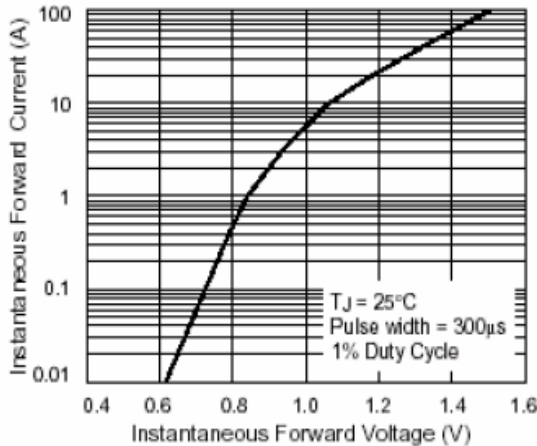
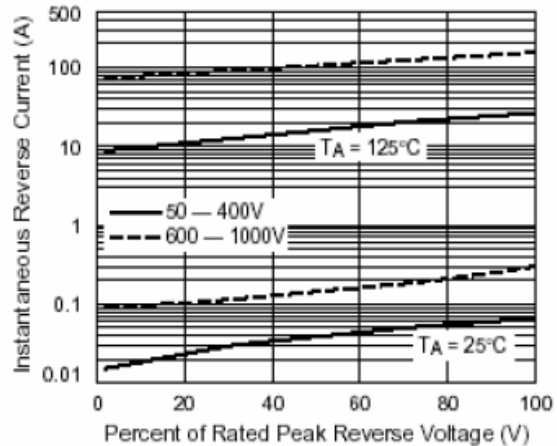
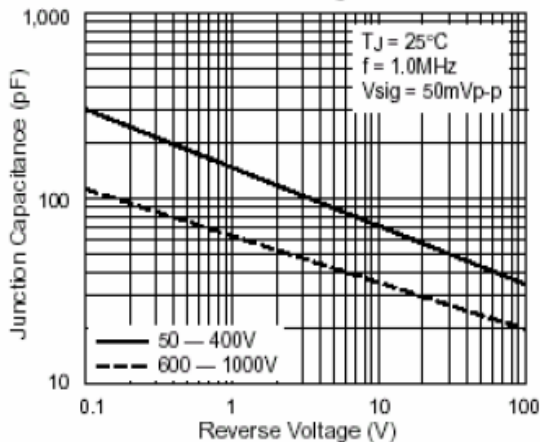
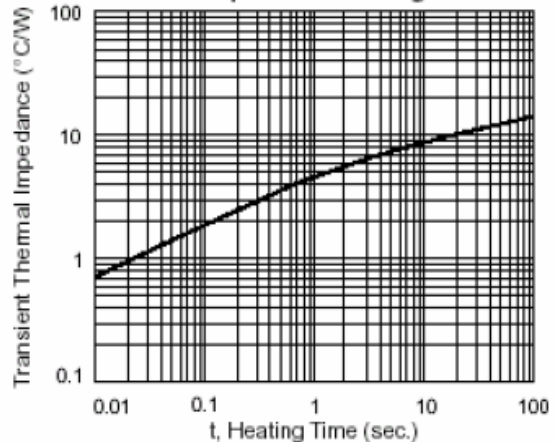
Symbol	Description	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.1							V	Drop per Bridge element 3.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							µA	TA=25°C
		500								Tc=125°C
CJ	Typical Junction Capacitance	95			40				pF	Measured at 1.0MHz/4.0V
Rθ-Ja	Typical Thermal Resistance	22							°C/W	Note 1
		3.5								Note 2

Note:

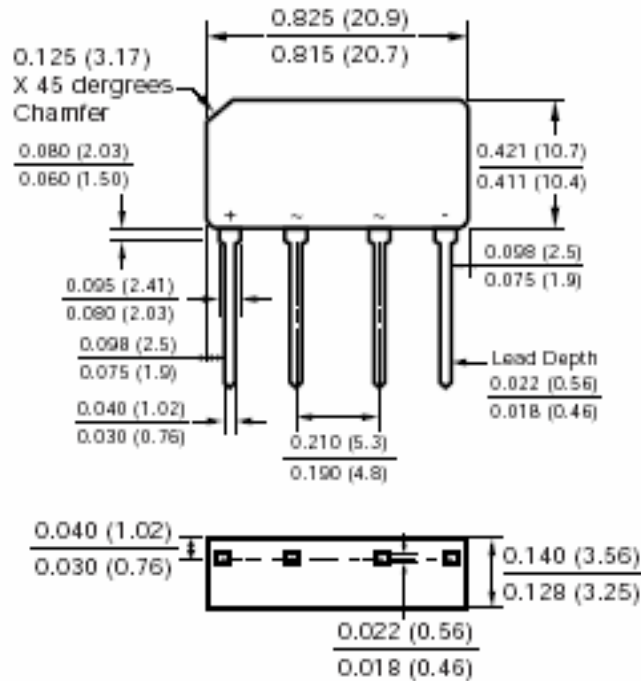
1. Device Mounted on 220X220X1.6mm Thick Al Plate Heatsink
2. Device Mounted on P.C.B Without Heat Sink

GBL05 ~ GBL10

RATINGS AND CHARACTERISTIC CURVES GBL05 THRU GBL10

Fig. 1 – Derating Curves Output Rectified Current

Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

Fig. 3 – Typical Forward Voltage Characteristics Per Leg

Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

Fig. 5 – Typical Junction Capacitance Per Leg

Fig. 6 – Typical Transient Thermal Impedance Per Leg


Dimensions in inches (mm)

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