

# Single Phase Glass Passivated Silicon Bridge Rectifier

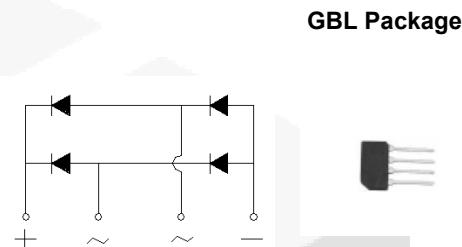
**V<sub>RRM</sub> = 50 V - 400 V**  
**I<sub>O</sub> = 4 A**

## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- This series is UL listed under the Recognized
- Glass passivated chip junction
- High case dielectric strength
- Typical I<sub>R</sub> less than 0,1 A
- High surge current capability
- Ideal for printed circuit boards
- Not ESD Sensitive

## Mechanical Data

Case: Molded plastic body over passivated junctions  
 Terminals: Plated leads, solderable per MIL-STD-750 Method 2026.  
 Weight: 0.071 oz, 2.0 g



## Maximum ratings at T<sub>c</sub> = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	GBL005	GBL01	GBL02	GBL04	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>		50	100	200	400	V
RMS reverse voltage	V <sub>RMS</sub>		35	70	140	280	V
DC blocking voltage	V <sub>DC</sub>		50	100	200	400	V
Operating temperature	T <sub>j</sub>	-55 to 150	°C				
Storage temperature	T <sub>stg</sub>	-55 to 150	°C				

## Electrical characteristics at T<sub>c</sub> = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

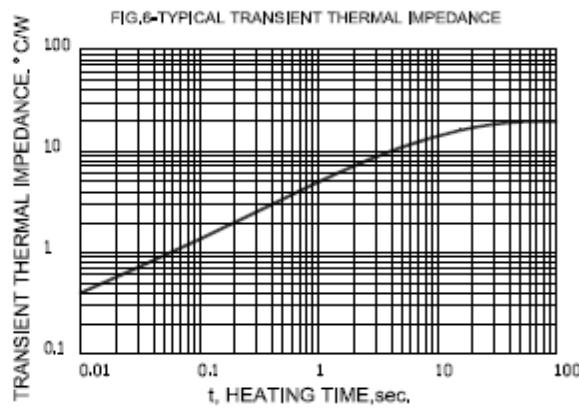
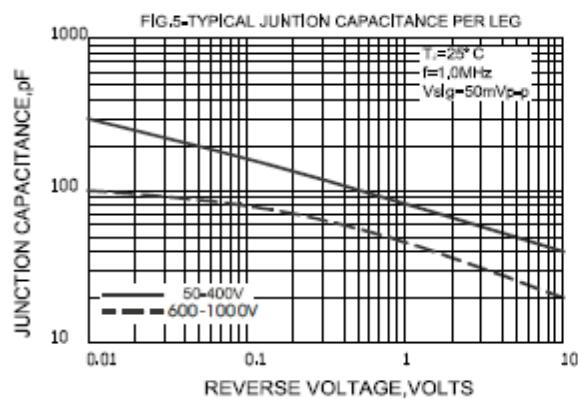
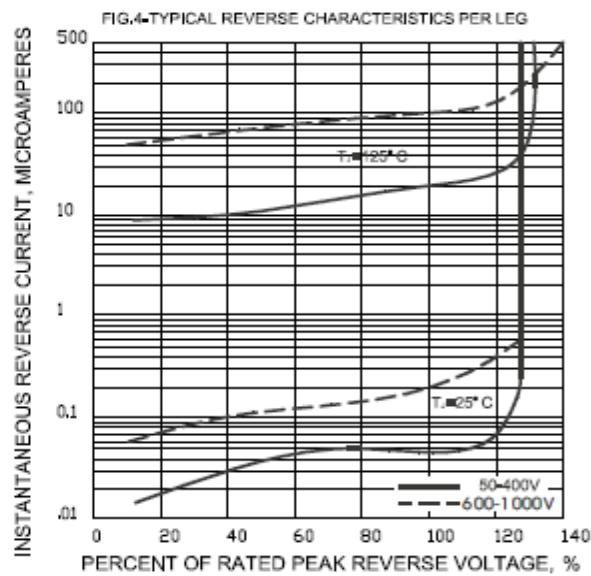
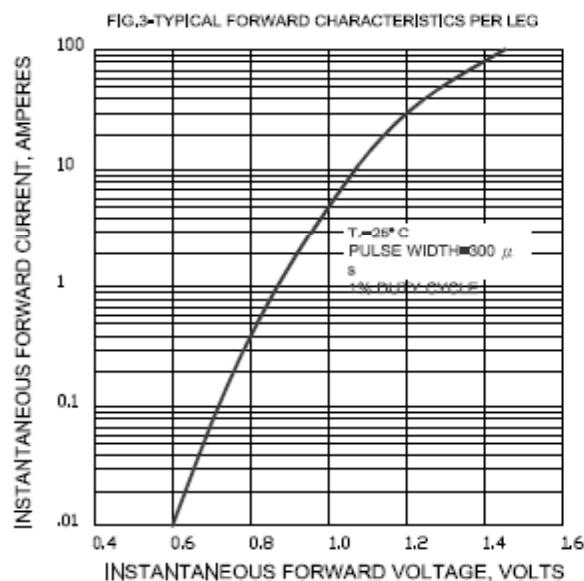
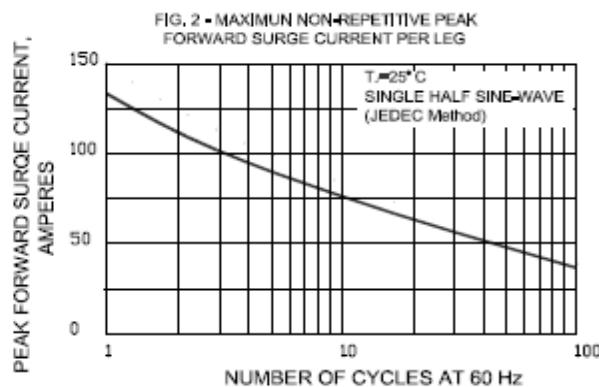
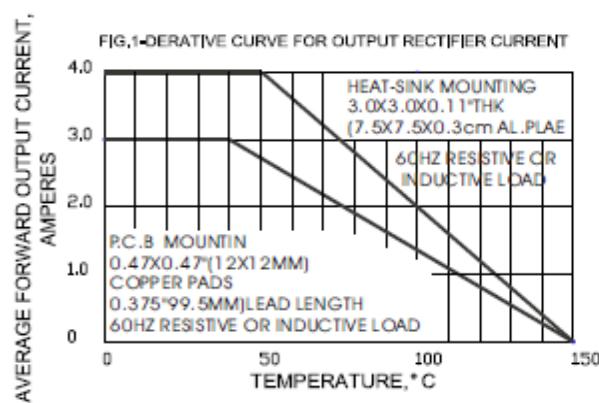
For capacitive load derate current by 20%

Parameter	Symbol	Conditions	GBL005	GBL01	GBL02	GBL04	Unit
Maximum average forward rectified current	I <sub>O</sub>	T <sub>c</sub> = 50 °C (Note 1)	4.0	4.0	4.0	4.0	A
		T <sub>c</sub> = 40 °C (Note 2)	3.0	3.0	3.0	3.0	
Peak forward surge current	I <sub>FSM</sub>	t <sub>p</sub> = 8.3 ms, half sine	135	135	135	135	A
Maximum instantaneous forward voltage drop per leg	V <sub>F</sub>	I <sub>F</sub> = 4 A	1.1	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>R</sub>	T <sub>a</sub> = 25 °C	5	5	5	5	μA
		T <sub>a</sub> = 125 °C	500	500	500	500	
Rating for fusing	I <sup>2</sup> t	t < 8.3 ms	75	75	75	75	A <sup>2</sup> sec
Typical junction capacitance per leg (Note 3)	C <sub>j</sub>		95	95	95	95	pF
Typical thermal resistance per leg	R <sub>θJA</sub>	(Note 1)	22	22	22	22	°C/W
	R <sub>θJL</sub>	(Note 2)	3.5	3.5	3.5	3.5	

<sup>1</sup> - Unit mounted on 3.0" x 3.0" x 0.11" (75 mm x 75 mm x 3 mm) Al plate

<sup>2</sup> - Unit mounted on P.C.B. At 0.375" (9.5 mm) lead length and 0.5" x 0.5" (12 mm x

<sup>3</sup> - Measured at 1.0 MHz and applied reverse bias of 4.0 V



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

