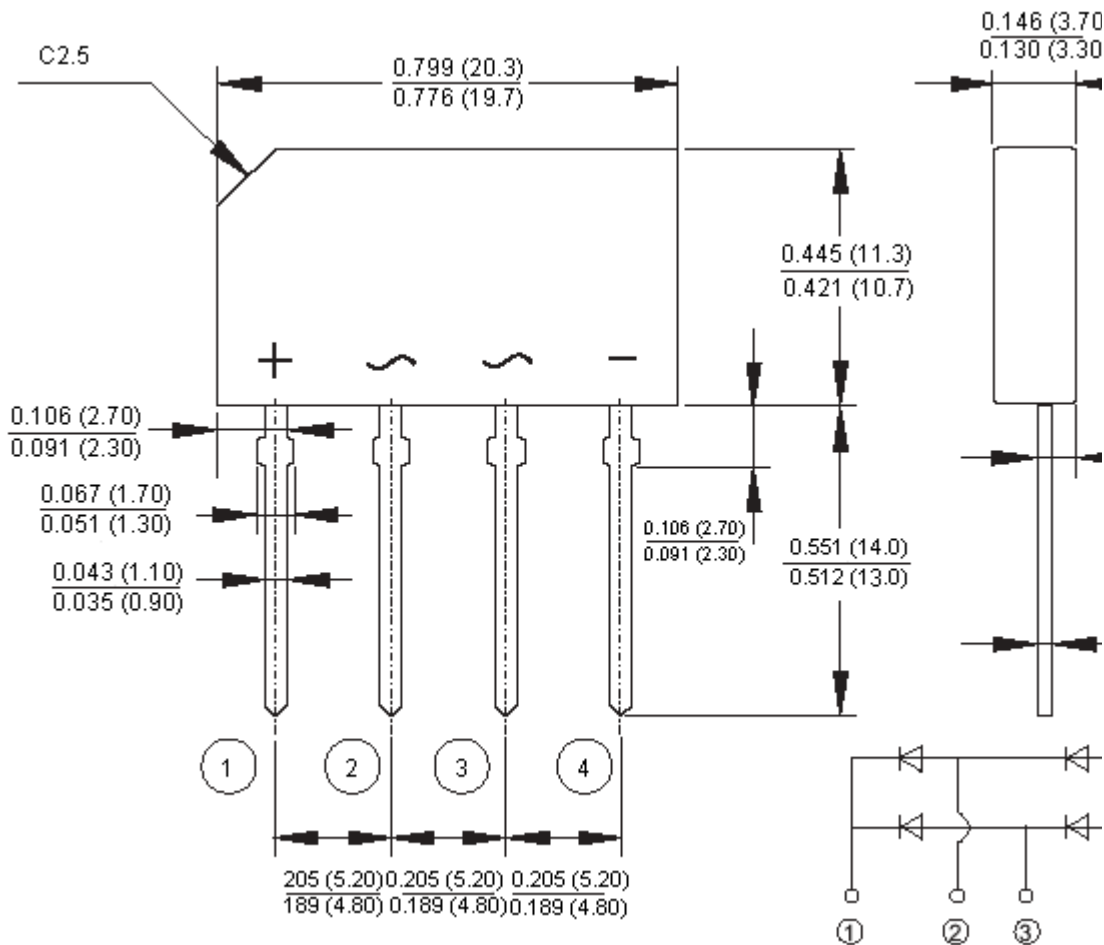




## Features:

- Glass passivated chip junction.
- Ideal for printed circuit board.
- High case dielectric strength.
- Plastic material has underwriters laboratory.
- Flammability classification.
- Typical  $I_R$  less than  $0.1\mu A$ .
- High surge current capability.
- High temperature soldering guaranteed:  $260^\circ C/10$  seconds/ $0.375$  inch, ( $9.5mm$ ) lead lengths.

## GBL



## Mechanical Data

Case	: Moulded plastic body.
Terminals	: Pure tin plated, lead free leads solderable per MIL-STD-750, Method 2026.
Weight	: 0.071 ounce, 2.0 grams
Mounting position	: Any

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

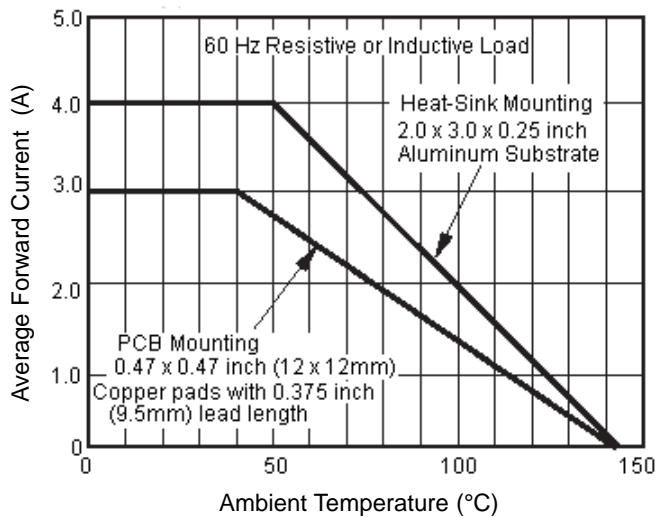
Type Number	Symbol	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current at T <sub>C</sub> = 50°C (Note 1) at T <sub>A</sub> = 40°C (Note 2)	I <sub>(AV)</sub>	4.0 3.0						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) T <sub>J</sub> = 150°C	I <sub>FSM</sub>	150						
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	9.3						A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage at 2.0A at 4.0A	V <sub>F</sub>	1.0 1.1						V
Maximum DC Reverse Current at T <sub>A</sub> = 25°C at Rated DC Blocking Voltage at T <sub>A</sub> = 125°C	I <sub>R</sub>	5.0 500						uA uA
Typical Junction Capacitance Per Leg at 4.0V, 1MHz	C <sub>J</sub>	95			40			pF
Typical Thermal Resistance Per Leg (Note 1) (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	22 3.5						°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150						°C
Storage Temperature Range	T <sub>STG</sub>							

Notes 1. Unit Mounted on 2 x 3 x 0.25 inches Al. plate.

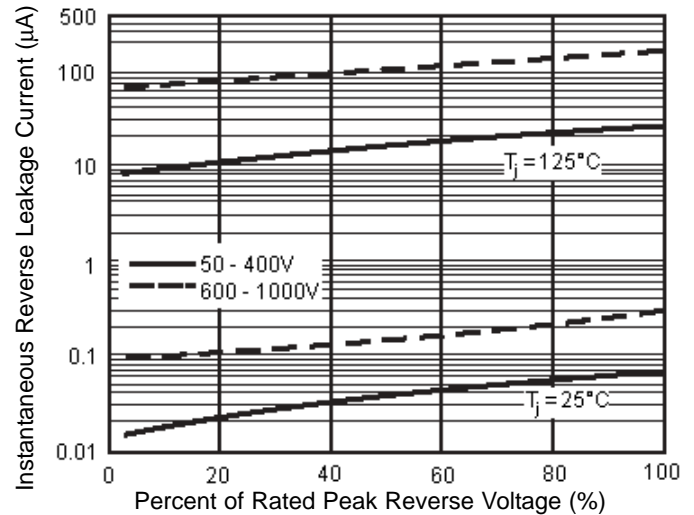
2. Units Mounted on PCB 0.5 x 0.5 inch (12 x 12mm) Copper Pads, 0.375 inch (9.5mm) Lead Length.

## Ratings and Characteristic Curves (GBL01, GBL02, GBL04, GBL06, GBL08 and GBL10)

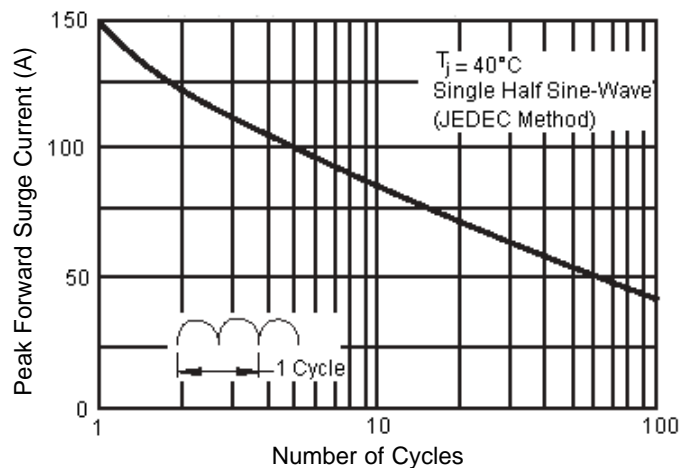
**Derating Curve for Output Rectified Current**



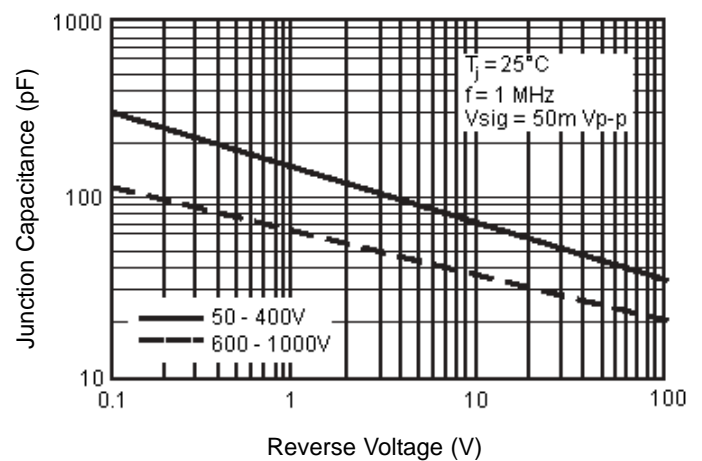
**Typical Reverse Characteristics**



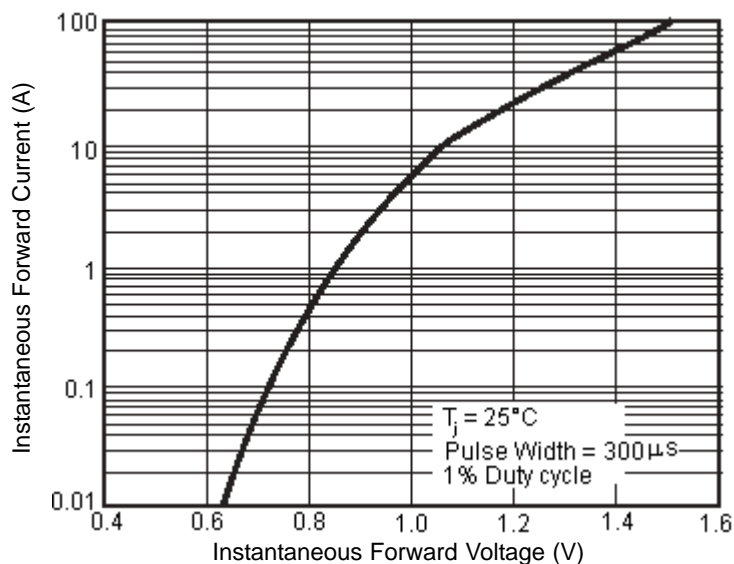
**Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



**Typical Junction Capacitance Per Leg**



Typical Forward Voltage Characteristics Per Leg



## Part Number Table

Description	Part Number
Bridge Rectifier, 4A, 100V	GBL01
Bridge Rectifier, 4A, 200V	GBL02
Bridge Rectifier, 4A, 400V	GBL04
Bridge Rectifier, 4A, 600V	GBL06
Bridge Rectifier, 4A, 800V	GBL08
Bridge Rectifier, 4A, 1000V	GBL10

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