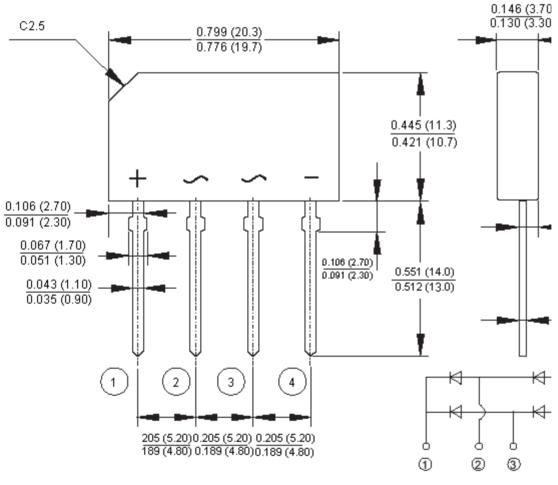


RoHS Compliant

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 0.1μ A.
- High surge current capability.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths.

GBL



Dimensions : Inches (Millimeters)

Mechanical Data

Case Terminals Weight Mounting position Moulded plastic body.
Pure tin plated, lead free leads solderable per MIL-STD-750, Method 2026.
0.071 ounce, 2.0 grams
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 _{RRM}	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current at $T_C = 50^{\circ}C$ (Note 1) at $T_A = 40^{\circ}C$ (Note 2)	I _(AV)	4.0 3.0					A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) T _J = 150°C	I _{FSM}	150						
Rating for fusing (t<8.3ms)	l ² t	9.3					A ² sec	
Maximum Instantaneous Forward Voltage at 2.0A at 4.0A	V _F	1.0 1.1					v	
Maximum DC Reverse Current at $T_A = 25^{\circ}$ C at Rated DC Blocking Voltage at $T_A = 125^{\circ}$ C	I _R	5.0 500					uA uA	
Typical Junction Capacitance Per Leg at 4.0V, 1MHz	CJ	95 40				pF		
Typical Thermal Resistance Per Leg (Note 1) (Note 2)	R _{θJA} R _{θJL}	22 3.5					°C/W	
Operating Temperature Range	TJ						°C	
Storage Temperature Range	T _{STG}	-55 to +150						

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 x12mm) Copper Pads, 0.375 inch (9.5mm) Lead Length.

Derating Curve for Output Rectified Current 5.0 60 Hz Resistive or Inductive Load Average Forward Current (A) 4.0 Heat-Sink Mounting 2.0 x 3.0 x 0.25 inch Aluminum Substrate 3.0 2.0 PCB Mounting | | 0.47 x 0.47 inch (12 x 12mm) 1.0 Copper pads with 0.375 inch (9.5mm) lead length 0, 0, 50 100 150 Ambient Temperature (°C)

Maximum Non-Repetitive Peak Forward Surge

150

100

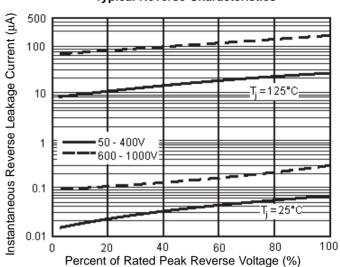
50

0

1

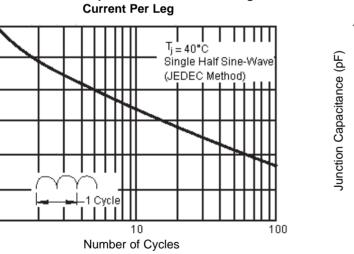
Peak Forward Surge Current (A)

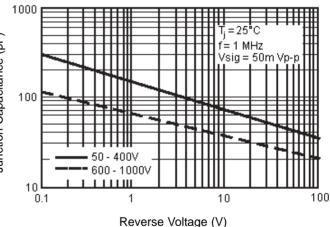
Ratings and Characteristic Curves (GBL01, GBL02, GBL04, GBL06, GBL08 and GBL10)

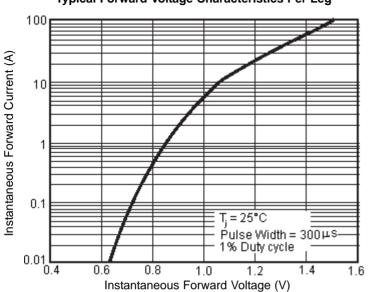


Typical Reverse Characteristics

Typical Junction Capacitance 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				

Typical Forward Voltage Characteristics Per Leg