

Glass Passivated Single-Phase Bridge Rectifiers  
Reverse Voltage 50 to 1000 Volts Forward Current 2.0 Amperes

## Features

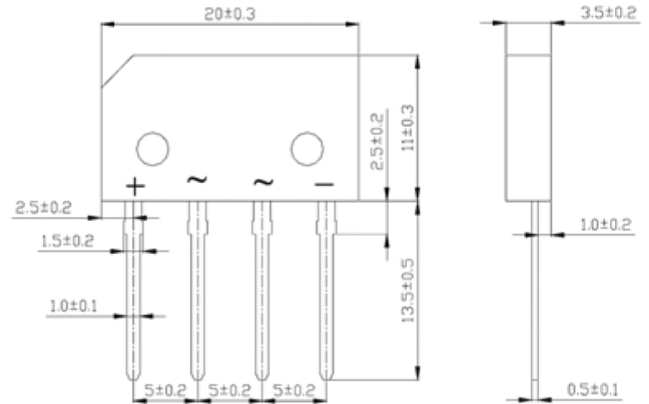
2018

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Glass passivated chip junction
- ◆ High surge current capability



## Mechanical Data

- ◆ Case: GBL(2S) Molded plastic body
- ◆ Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- ◆ High temperature soldering guaranteed: 260°C/10 seconds, 0.375 (9.5mm) lead length, 5lbs.(2.3kg) tension
- ◆ Mounting Position: Any
- ◆ Weight: 0.074 oz., 2.1 g



Package outline dimensions in millimeters

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	GBL2A	GBL2B	GBL2D	GBL2G	GBL2J	GBL2K	GBL2M	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at $T_A=50^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	65.0							Amps
Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	17							$\text{A}^2\text{sec}$
Maximum instantaneous forward voltage drop per leg at 1.0A	$V_F$	1.0							Volt
Maximum DC reverse current at rated DC blocking voltage per leg $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	5.0 250.0							$\mu\text{A}$
Typical junction capacitance per leg at 4.0V, 1MHz	$C_J$	25							pF
Typical thermal resistance per leg (Note 1)	$R_{\theta JA}^{(2)}$ $R_{\theta JC}^{(1)}$	32 13							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$

**Notes:** 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B with 0.47" x 0.47" (12mm x 12mm) Copper Pads.

# RATINGS AND CHARACTERISTIC CURVES

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

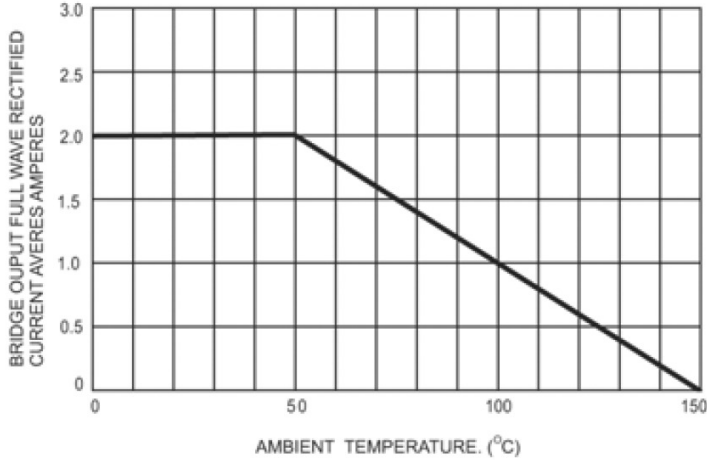


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

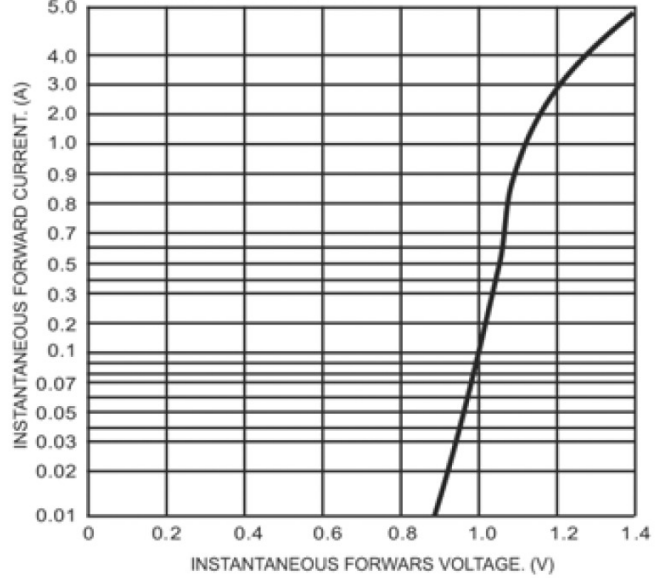


FIG.3- TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

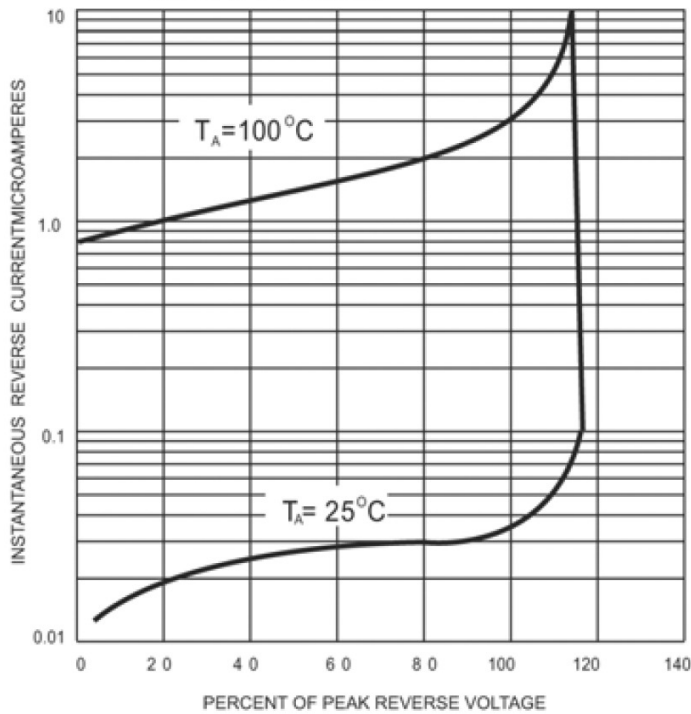


FIG.4- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

