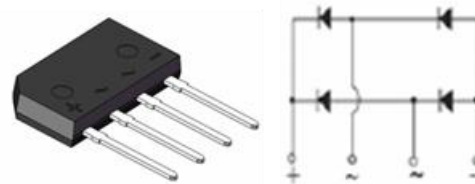


## Reverse Voltage 50~1000V Output Current 2.0A

### Features

- Glass passivated Bridge Rectifiers
- Ideal for PCB
- High surge current capability
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition



GBL

### Typical Applications

- General purpose use in ac-to-dc bridge full wave rectification for TV, Monitor, SMPS, Adapter, Printer, Audio equipment, and Home Applications application

### Mechanical Data

- Case:GBL, Molding compound meets UL 94V-0 flammability rating Base P/N with suffix"E" on packing code-halogen free;
- Terminals:Matte tin plated leads, solderable per MII-STD-750 Method 2026, J-STD-002 and JESD22-B102, meets JESD 201 class 1A whisker test

#### Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	GBL2AU	GBL2BU	GBL2DU	GBL2GU	GBL2JU	GBL2KU	GBL2MU	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average forward rectified output current at 60Hz sinewave, R-load, On Glass-epoxy substrate,	$I_{F(AV)}$	2.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80							A
Rating for fusing ( $t \leq 8.3ms$ )	$I^2t$	27							A <sup>2</sup> s
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to 150							°C

<b>Electrical Characteristics</b> (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBL2AU	GBL2BU	GBL2DU	GBL2GU	GBL2JU	GBL2KU	GBL2MU	Unit
Maximum instantaneous forward voltage	I <sub>F</sub> =1.0A	V <sub>F</sub>				1.0				Volts
Maximum DC reverse current at rated DC blocking voltage	T <sub>A</sub> =25°C	I <sub>R</sub>				5.0				μA
	T <sub>A</sub> =125°C					250				
Typical thermal resistance <sup>1)</sup>		R <sub>θJA</sub>				32				°C/W
		R <sub>θJL</sub>				13				

Note:1. Device mounted P.C.B with 0.47x0.47"(12mmx12mm) Copper Pads.

## Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

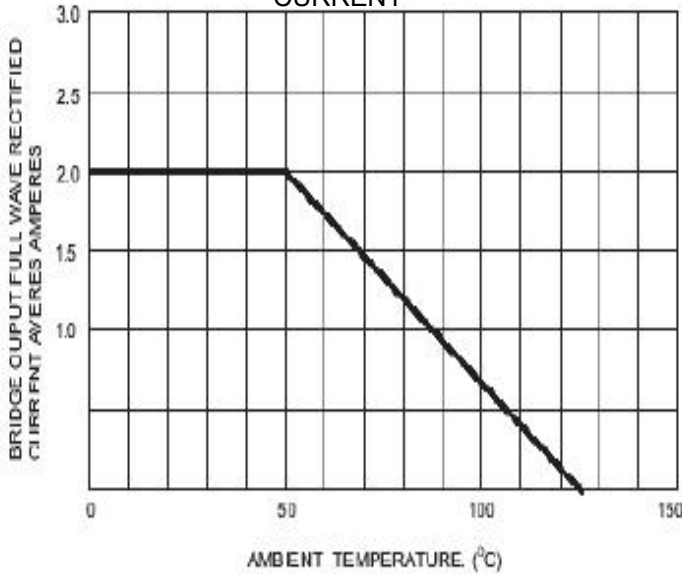


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

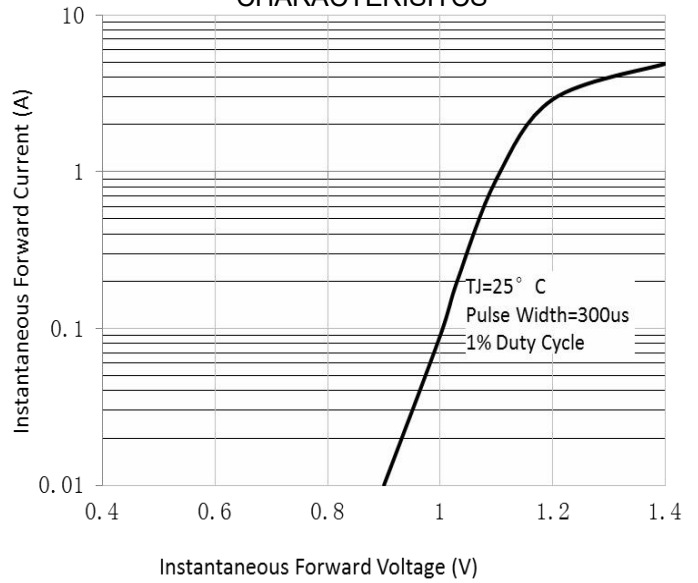


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

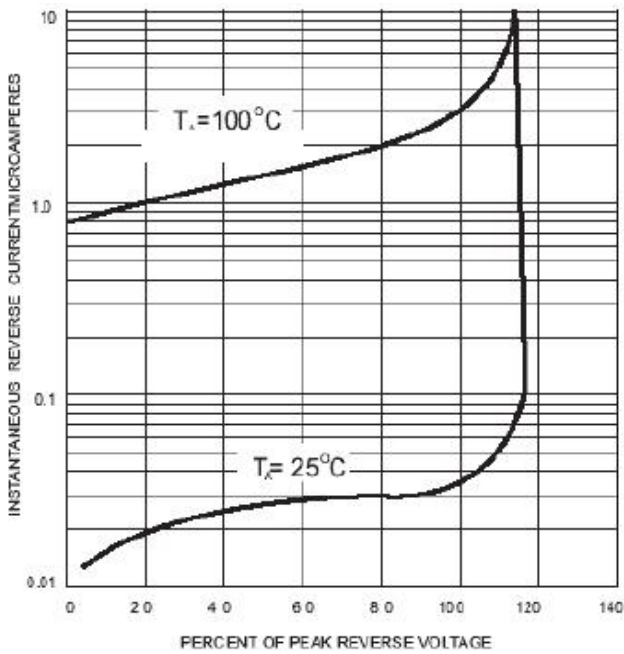
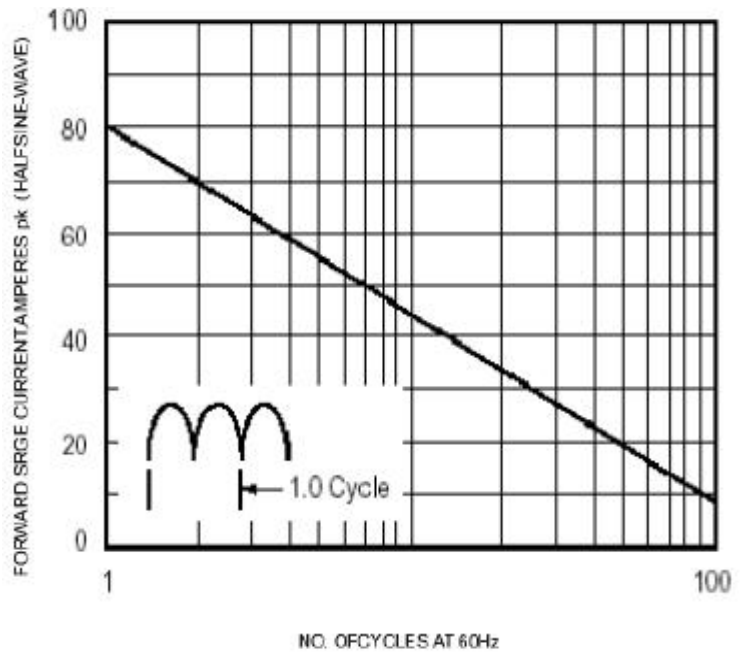


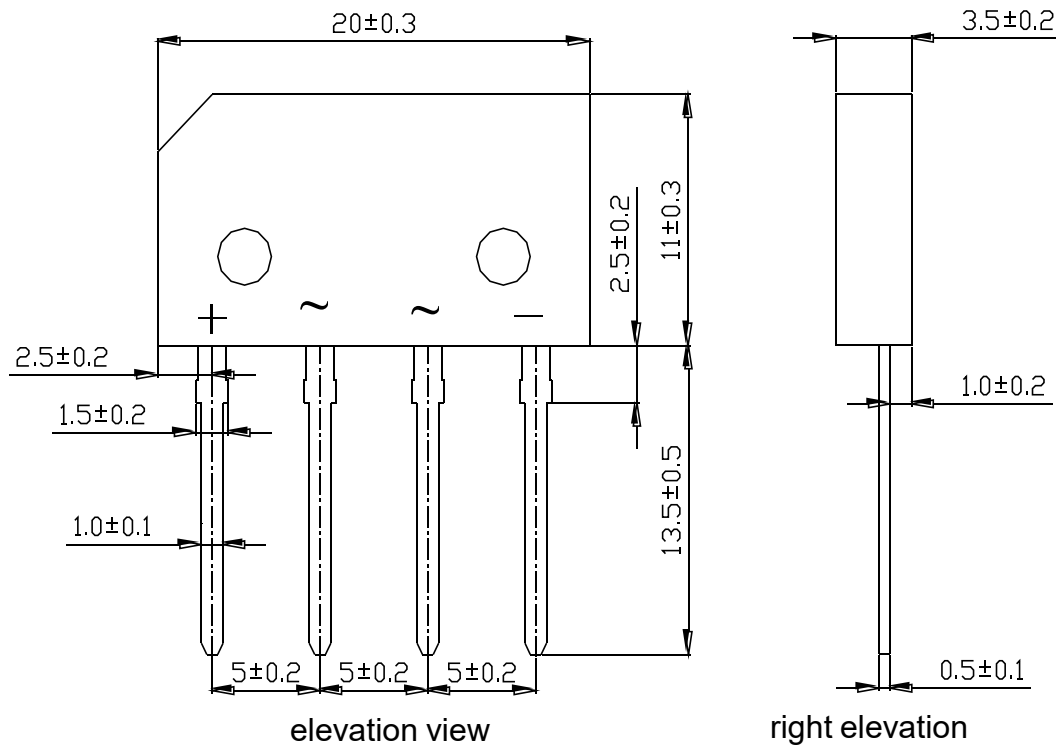
FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



## Package Outline Dimensions

Unit:mm

First angle projection



## Revision History

Document Version	Date of release	Discription of changes
Rev.A	2021/3/21	Released Datasheet
Rev.B	2023/12/7	Modify document format

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