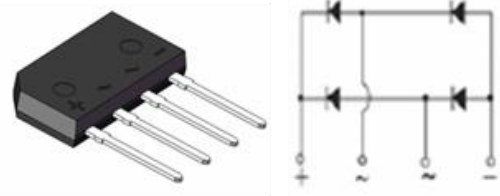


Reverse Voltage 50~1000V Output Current 2.0A

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



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

GBL

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	GBL2A	GBL2B	GBL2D	GBL2G	GBL2J	GBL2K	GBL2M	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 sine-wave, R-load, On Glass-epoxy substrate, TA=50° C	$I_{F(AV)}$	2.0							A	
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	65							A	
Rating for fusing ($t \leq 8.3ms$)	I^2t	18							A ² s	
Operating junction temperature range	T_J	-55 to 150							°C	
Storage temperature range	T_{STG}	-55 to 150							°C	
Typical junction capacitance	4.0 V, 1 MHz	C_J	25							pF

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	GBL2A	GBL2B	GBL2D	GBL2G	GBL2J	GBL2K	GBL2M	Unit
Maximum instantaneous forward voltage	I _F =1.0A	V _F				1.0				Volts
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R				5.0				µA
	T _A =125°C					250				
Typical thermal resistance ¹⁾		R _{θJA}				32				°C/W
		R _{θJL}				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

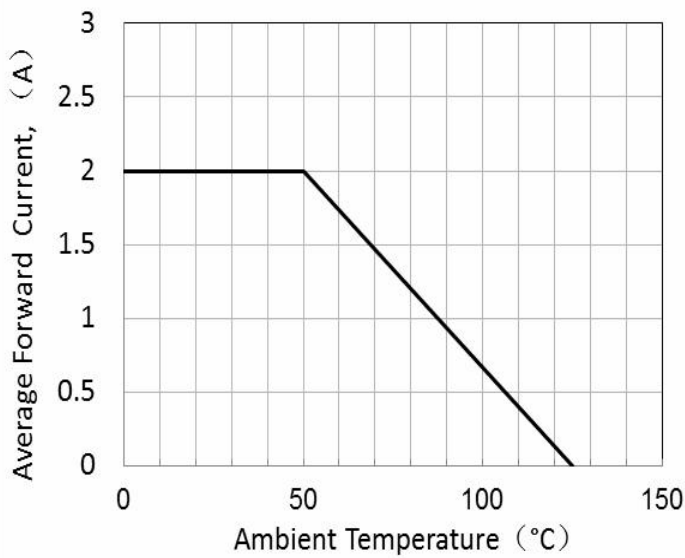


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

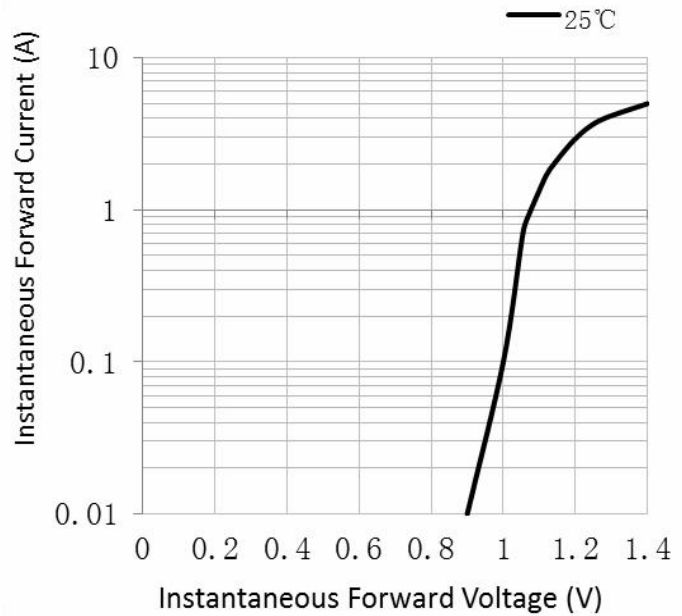


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

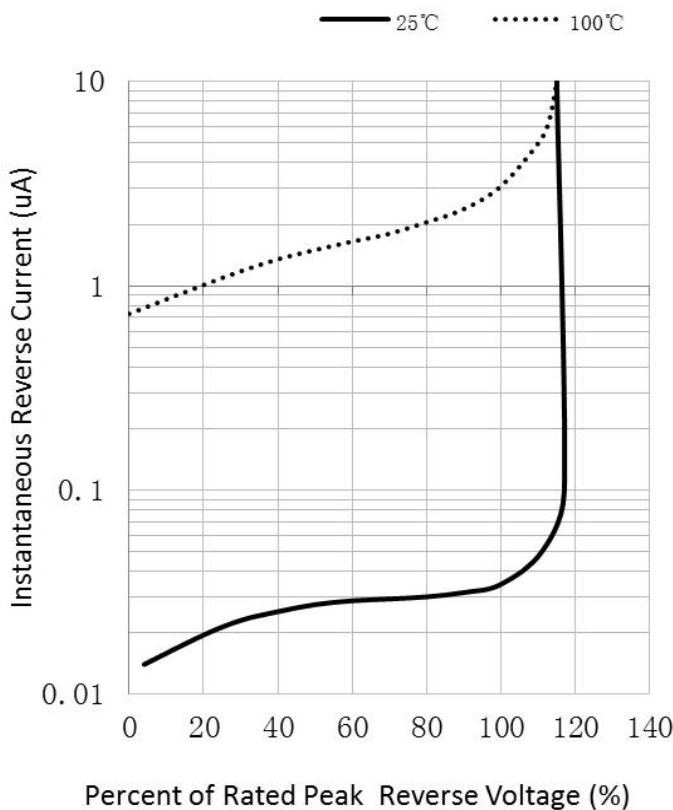
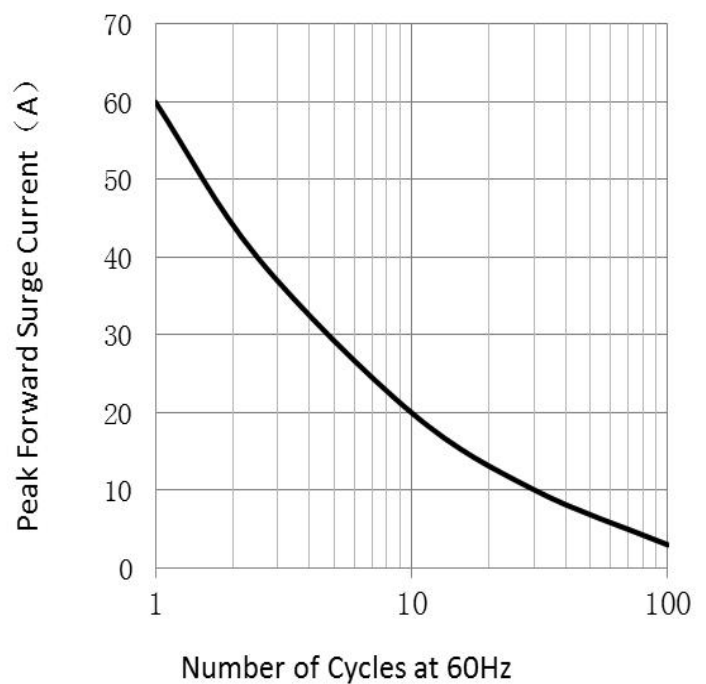


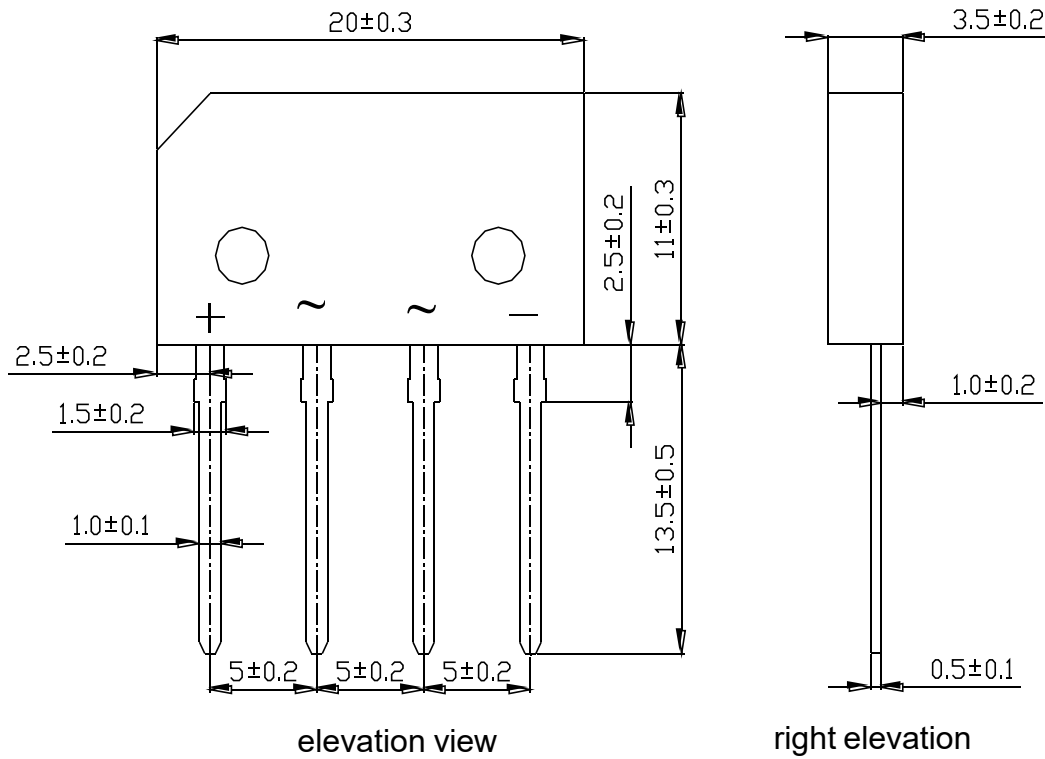
FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



Package Outline Dimensions

in millimeters

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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