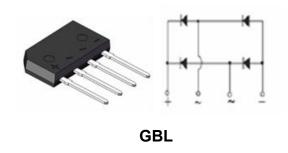


GOOD-ARK Electronics

Reverse Voltage 50~1000V Output Current 4.0A

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

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	GBL4A	GBL4B	GBL4D	GBL4G	GBL4J	GBL4K	GBL4M	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
Maximum average forward rectified TC=50° C output current at TA=40° C	I _{F(AV)}	4.0 ⁽¹⁾ 3.0 ⁽²⁾				А			
Peak forward surge current single sine-wave superimposed on rated load (JEDECMethod)	I _{FSM}	150				А			
Rating for fusing (t≤8.3ms)	l ² t	94			A ² s				
Operating junction and storage temperature range	T _J , T _{STG}	-55 to 150				°C			



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Electrical Characteristics (TA = 25°C unless otherwise noted)										
Parameter	Test Conditions	Symbol	GBL4A	GBL4B	GBL4D	GBL4G	GBL4J	GBL4K	GBL4M	Unit
Maximum instantaneous forward voltage	I _F =2.0A	V _F	1.0					Volts		
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C		5.0							
	T _A =125°C	I _R	250							μA
Typical thermal resistance ¹⁾		$R_{ extsf{ heta}JA}$	47							
		$R_{ extsf{ heta}JL}$	10						°C/W	

Unit mounted on 3.0x3.0x0.11" thick (7.5x7.5x0.3cm) Aluminum plate.
Unit mounted on P.C.B at 0.375"(9.5mm) lead length and 0.5x0.5"(12x12mm) copper pads.



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



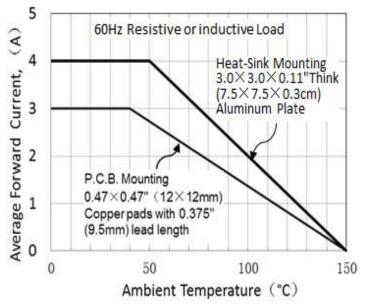


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

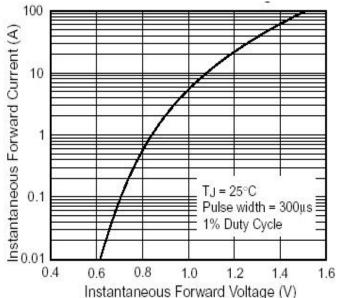


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

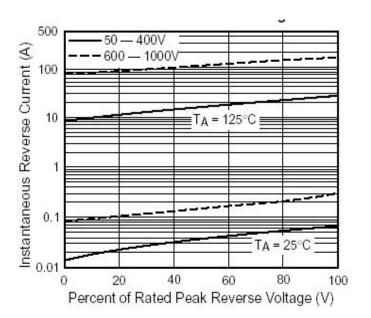
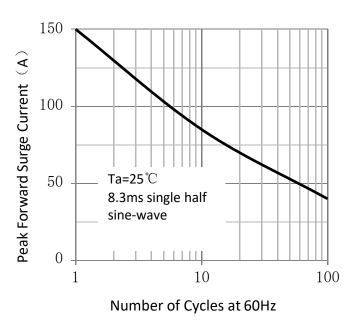


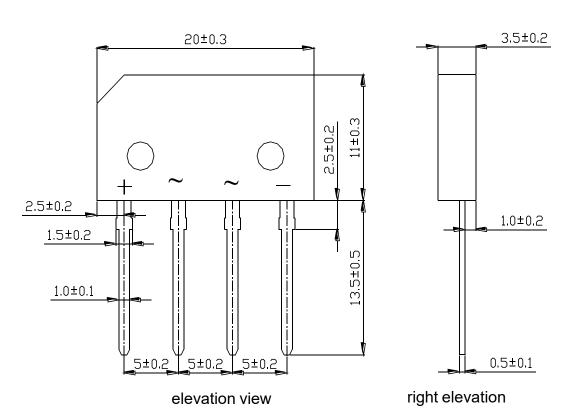
FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT





Package Outline Dimensions

Unit:mm



First angle projection

Revision History

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



GBL4A thru GBL4M GOOD-ARK Electronics

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