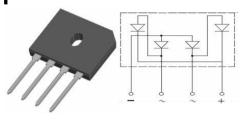


GOOD-ARK Electronics

Reverse Voltage 50~1000V Output Current 8.0A

Features

- •Glass passivated Bridge Rectifiers
- Ideal for PCB
- High surge current capability
- •Solder dip 275 °C max. 7 s, per JESD 22-B106



GBU

Typical Applications

•General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- Case: GBU, Molding compound meets UL 94V-0 flammability rating, RoHS-compliant
- •Terminals:Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

Maximum Ratings (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	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	٧
Average rectified output current at 60Hz sinewave, R-load	TC=110°C		8.0							
	TA=25°C	I _{F(AV)}	3.2							
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	175							Α
Rating for fusing (t≤8.3ms)		l²t	128						A ² s	
Operating junction temperature range		TJ	-55 to 150						°C	
Storage temperature range		T _{STG}	-55 to 150							°C



GBU8005 thru GBU810 GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	Unit
Maximum instantaneous forward voltage	I _F =4.0A	V_{F}	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	T _A =25° C		5.0							
		I _R	250							μA
	R _{θ JA}	25								
Typical thermal resistance	R _{θ JC}	2. 3							° C/W	

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

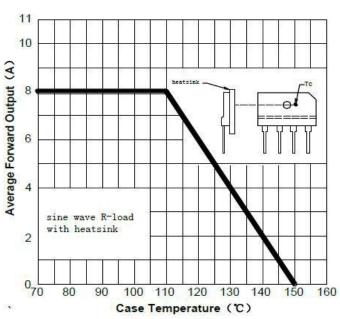


FIG.3-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

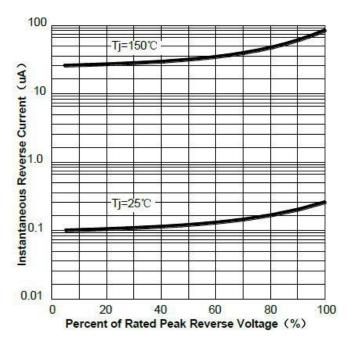


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

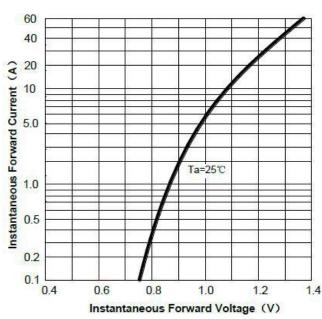
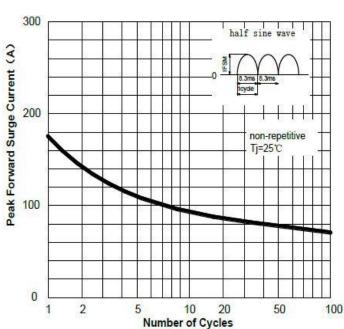


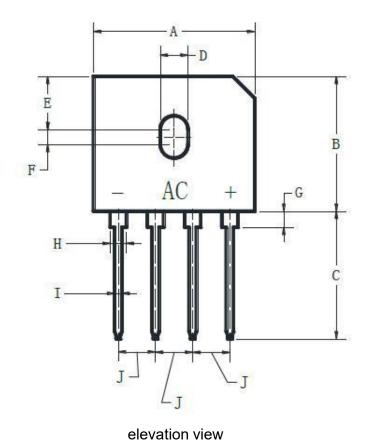
FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT



Package Outline Dimensions

Dimensions in millimeters

First angle projection





GBU						
Dim	Min	Max				
Α	21.70	22.30				
В	18.20	19.10				
С	17.20	18.29				
D	3.40	4.10				
Е	7.40	7.90				
F	1.65	2.16				
G	1.53	2.54				
Н	1.65	2.54				
I	0.90	1.27				
J	4.80	5.33				
K	3.30	3.56				
L	2.30	3.00				
М	0.45	0.56				

left elevation

Revision History

Document Version	Date of release	Discroption of changes			
Rev.A	2021/3/1	Released Datasheet			
Rev.B	2023/12/17	Modify document format			



GBU8005 thru GBU810

GOOD-ARK Electronics

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page.

(http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.