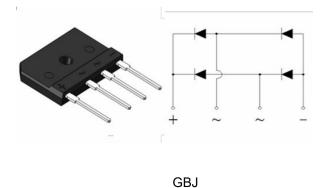


**GOOD-ARK Electronics** 

## Reverse Voltage50V~1000V Output Current 35A

#### Features

- Thin Single In-Line package;
- Ideal for printed circuit boards;
- Glass Passivated chip junction;
- High Surge current capability;
- High case dielectric strength of 2500 VRMS;
- Plastic package has Underwrites Laboratory
- Flammability Classification 94V-0;



#### **Typical Applications**

•General purpose use in AC-to-DC bridge full wave rectification for Switching Power Supply, Home Appliances, Office Equipment, Industrial Automation applications.

### **Mechanical Data**

- Case: GBJ(5S)Molded plastic body;Base P/N with suffix"E" on packing code-halogen free
- Terminals:Plated leads solderable per MIL-STD-750, Method 2026;
- High temperature soldering guaranteed: Solder Dip 260°C, 10seconds;
- Polarity: As marked on body;
- Mounting Torgue: 10cm-kg (8.8 inches-lbs) max;
- Recommend Torgue: Mounting Torgue: 5.7cm-kg (5inches-lbs);

Maximum Ratings (TA = 25 °C unless otherwise noted)									
Parameter	Symbol	GBJ35A	GBJ35B	GBJ35D	GBJ35G	GBJ35J	GBJ35K	GBJ35M	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified outputcurrent	I <sub>F(AV)</sub>	35						А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load							A		
Rating for fusing(t<8.3ms)	l <sup>2</sup> t	667				A <sup>2</sup> sec			
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	<sub>G</sub> - 55 to + 150					°C		



Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBJ35A	GBJ35B	GBJ35D	GBJ35G	GBJ35J	GBJ35K	GBJ35M	Unit
Maximum instantaneous forwa per leg at 17.5A	V <sub>F</sub>	1.10							Volts	
Maximum DC reverse at rated	TA=25°C				5.00					
DC blocking voltage per leg	TA=125°C	I <sub>R</sub>	250.00					μA		

Thermal Characteristics									
Parameter	Symbol	GBJ35A	GBJ35B	GBJ35D	GBJ35G	GBJ35J	GBJ35K	GBJ35M	Unit
	R0JA (2)	22 <sup>(2)</sup>							
Typical thermal resistance per leg	Rejc (3)	0.8 <sup>(1)</sup>							

1). Unit case mounted on AI plate heatsink;

2). Units mounted on PCB without heatsink;

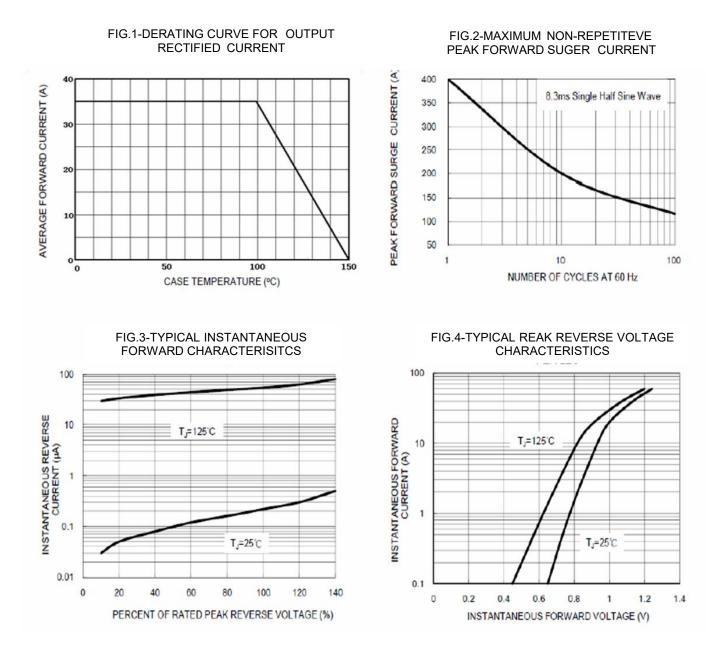
3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.



**GOOD-ARK Electronics** 

## **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)





4.6±0.2 3.6±0.2

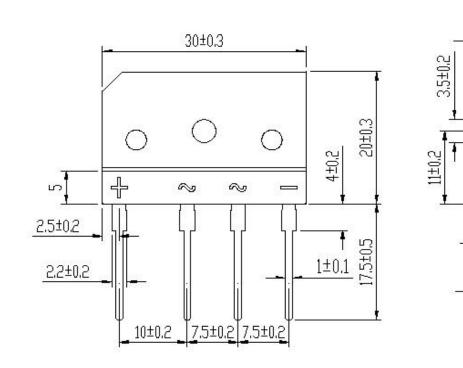
3,2±0,2

0.7±0,1

2.7±0.2

## **Package Outline Dimensions**

in millimeters



elevation view

First angle projection

right 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



## **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 thirdparty'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.