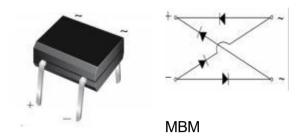




Reverse Voltage 100~600V Ountput Current 0.5A

Features

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- Glass passivated chip junctions
- Saves space on printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
- Add suffix "E" for Halogen Free



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: Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Mounting Position: Any

Maximum Ratings (TA = 25 °C unless otherwise noted)							
Parameter		Symbol	05B4B48	05G4B48	05J4B48	Unit	
Maximum repetitive peak reverse voltage		V_{RRM}	100	400	600	V	
Maximum RMS voltage		V _{RMS}	70	280	420	V	
Maximum DC blocking voltage		V _{DC}	100	400	600	V	
Average forward rectified output current (1)	On Glass-epoxy P.C.B		0.5 ⁽¹⁾			A	
	On aluminum substrate	I _{F(AV)}	0.8(2)				
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	33			А	
Rating for fusing (t≤8.3ms)		l ² t	4.54			A ² s	
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150			°C	
Typical junction capacitance per at 4.0V, 1.0MHz		Cj	13			pF	



Electrical Characteristics (TA = 25 °C unless otherwise noted)							
Parameter	Test Conditions	Symbol	05B4B48	05G4B48	05J4B48	Unit	
Maximum instantaneous forward voltage	I _F =0.4A	V _F		1.0		Volts	
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R	5.0				
	T _A =125°C			100	μΑ		
	R _{0JA}	85 ⁽¹⁾					
Typical thermal resistance ⁽¹⁾		R _{0JA}	70 ⁽²⁾			°C/W	
		R _{0JL}		20(1)			

Note:1. On glass epoxy P.C.B. mounted on 0.05×0.05"(1.3×1.3mm) pads

^{2.} On aluminum substrate P.C.B.whthan area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

8.0 Average Forward Rectified Current (A) Aluminum Substrate 0.7 0.6 0.5 0.4 Epoxy P.C.B. 0.3 0.2 Resistive or Inductive Load 0 0 20 40 100 120 140 160 Ambient Temperature (°C)

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

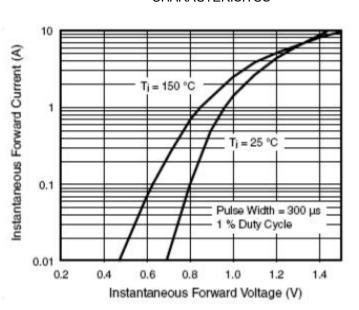


FIG.3 TYPICAL RESERVE LEAKAGE CHARACTERISTICS PER DIODE

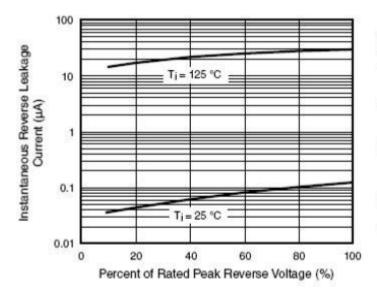
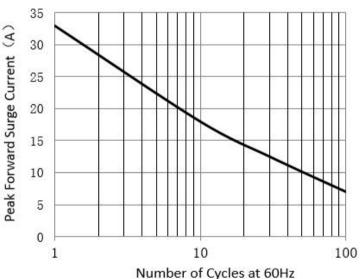


FIG.4-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

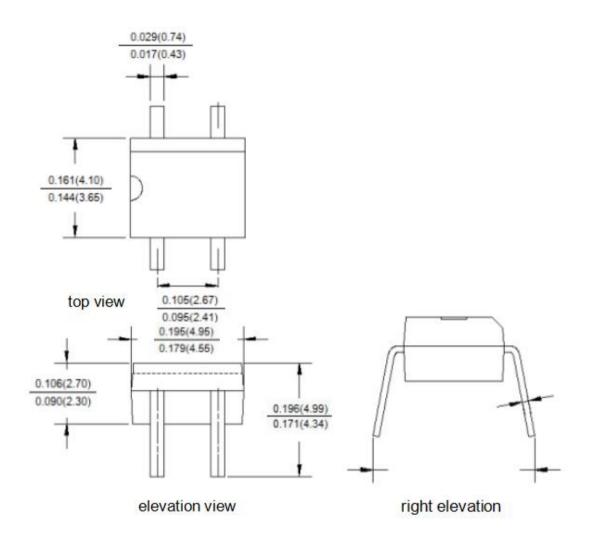




Package Outline Dimensions

Unit:inches(mm)

First angle projection



Revision History

Document Version	Date of release	Discroption of changes	
Rev.A	2021/3/1	Released Datasheet	
Rev.B	2023/12/8	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 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.