

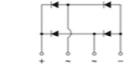
KBF401 thru KBF410

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage 100~1000V Ountput 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

DHS PLANT



Case Style KBF

Mechanical Data

- Case:KBF,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

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

Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter	Symbol	KBF401	KBF402	KBF404	KBF406	KBF408	KBF410	Unit
Maximum repetitive peak reverse voltage	VRRM	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	100	200	400	600	800	1000	V
Maximum average output rectified current	Io(AV) ¹⁾	4.0						Α
Iwaxiindin average output rectilled current	$lo(AV)^{2)}$	2.0						
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	150.0					А	
Rating for fusing (t≤8.3ms)	l ² t	93.8						A ² s
Operating junction and storage temperature range	TJ, TSTG	-55 to 150				°C		

Note1)with heatsink;

2)without heatsink

Z/Without Houtonix									
Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	KBF401	KBF402	KBF404	KBF406	KBF408	KBF410	Unit
Maximum instantaneous	IF=2.0A	V _F	1.0						
forward voltage	IF=4.0A	٧F	1.1						Volts
Maximum DC reverse	TA=25°C		5.0						
current at rated DC blocking voltage	TA=125°C	I _R	200.0					- μΑ	
Typical junction capacitance	4.0 V, 1 MHz	CJ	34.0					pF	



KBF401 thru KBF410

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage 100~1000V Ountput Current 4.0A

Thermal Characteristics (Ta=25°C unless otherwixe noted)									
Parameter	Test Conditions	Symbol	KBF401	KBF402	KBF404	KBF406	KBF408	KBF410	Unit
Typical thermal resistance ¹⁾	juntion to ambient	$R_{\theta JA}$	30					°C/W	
rypical thermal resistance	juntion to case	$R_{\theta JC}$	8						

Note:1),The thermal resistance from junction to ambient and case,mounted on glass epoxy FR-4 P.C.B

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

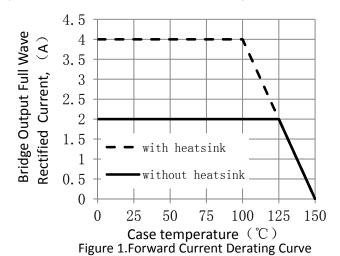


Figure 3. Typical Instantaneous Forward Characteristics

Instantaneous Forward Voltage (V)

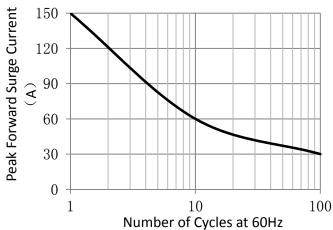


Figure 2.Maximum Non-Repetitive Peak
Forward Surge Current

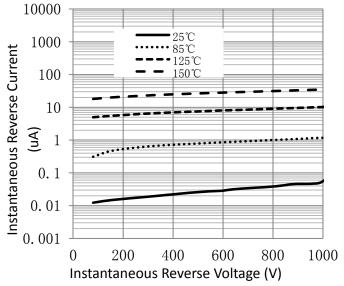


Figure 4. Typical Reverse Characteristics

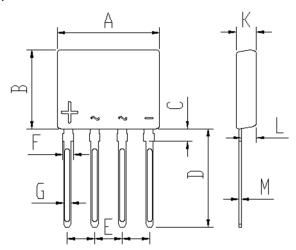
www.goodark.com 2/4 2016.01-Rev.B



KBF401 thru KBF410
Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage 100~1000V Ountput Current 4.0A

Package Outline Dimensions

Unit:mm



	MIN	MAX				
Α	13.95	14.45				
В	10.80	11.20				
С	1.75 Typical					
D	13.50	14.00				
Е	3.61	4.01				
F	1.30	1.70				
G	0.90	1.10				
K	2.65	2.95				
L	2.00	2.20				
M	0.26	0.46				



KBF401 thru KBF410

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage 100~1000V Ountput Current 4.0A

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. 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.