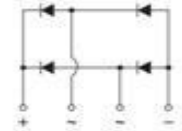
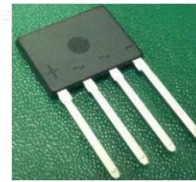


Reverse Voltage 100~1000V Output Current 2.0A

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



KBF

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: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

Maximum Ratings (TA = 25 °C unless otherwise noted)

Parameter	Symbol	KBF201	KBF202	KBF204	KBF206	KBF208	KBF210	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V	
Maximum average output rectified current	$I_{F(AV)}$	2.0						A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	60						A	
Rating for fusing ($t \leq 8.3ms$)	I^2t	15						A ² s	
Operating junction and storage temperature range	T_J, T_{STG}	-55 to 150						°C	
Typical junction capacitance	4.0 V, 1 MHz	C_J	16.7						pF

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	KBF201	KBF202	KBF204	KBF206	KBF208	KBF210	Unit
Maximum instantaneous forward voltage	IF=1.0A	VF	0.95						Volts
	IF=2.0A		1.1						
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	5.0						µA
	TA=125°C		200						
Typical thermal resistance ¹⁾	junction to ambie	RθJA	28						°C/W
	junction to case	RθJC	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 1. Forward Current Derating Curve

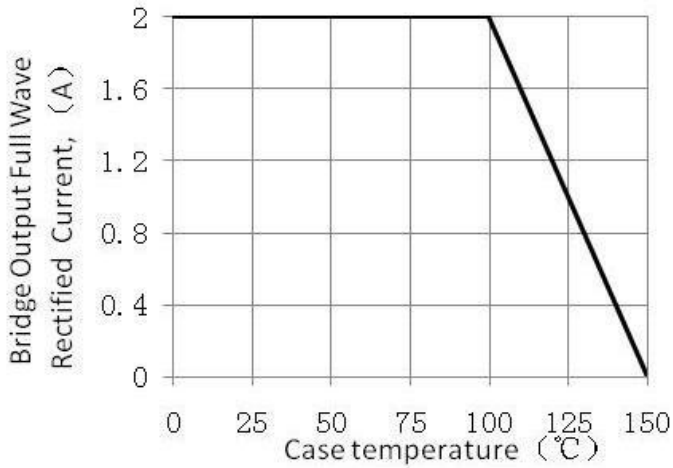


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

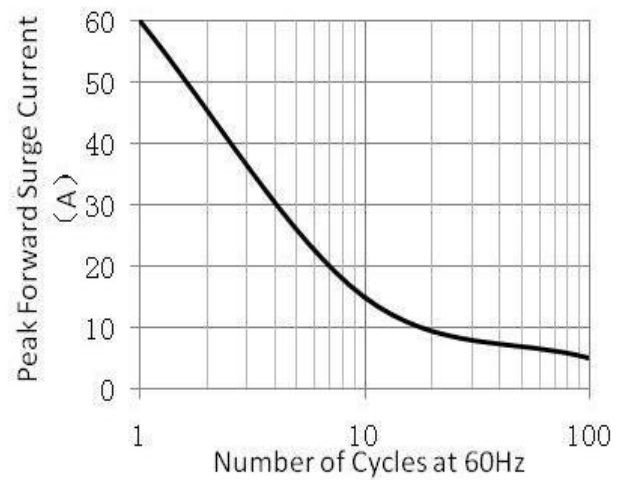


Figure 3. Typical Instantaneous Forward Characteristics

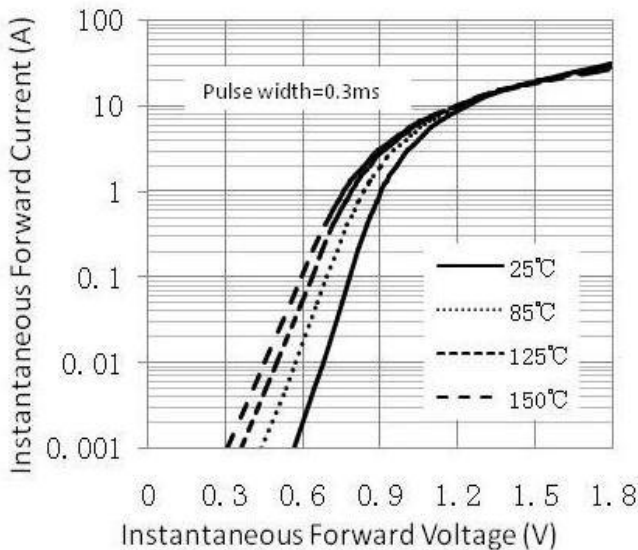
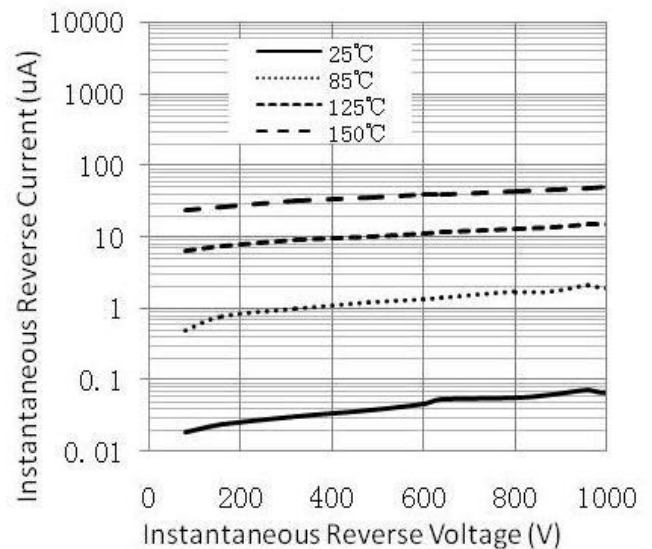


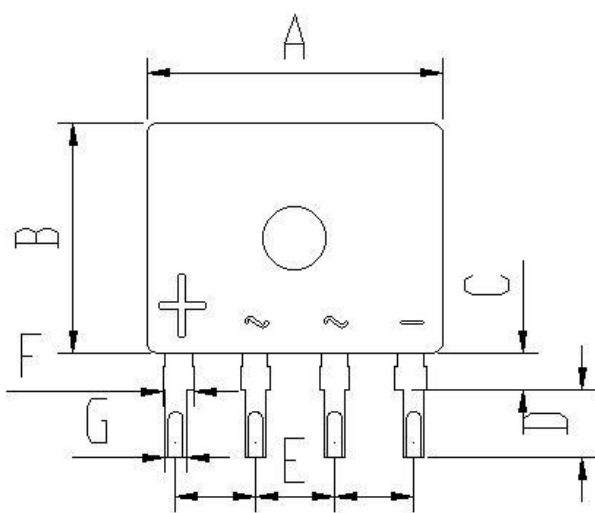
Figure 4. Typical Reverse Characteristic



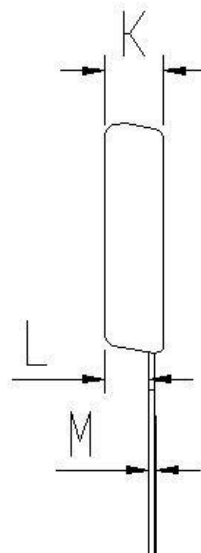
Package Outline Dimensions

Unit:mm

First angle projection



elevation view



left elevation

	MIN	MAX
A	13.95	14.45
B	10.80	11.20
C	1.75 Typical	
D	3.00	3.50
E	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

Revision History

Document Version	Date of release	Discription of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/10/17	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 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.