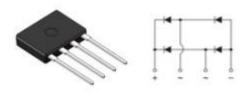


GOOD-ARK Electronics

Reverse Voltage 100~1000V Ountput 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	KBF201U	KBF202U	KBF204U	KBF206U	KBF208U	KBF210U	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		100	200	400	600	800	1000	V
Maximum average output rectified current		2.0					Α	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	80					А	
Rating for fusing (t≤8.3ms)	ı ² t	27					A ² s	
Operating junction and storage temperature range	TJ, TSTG	-55 to 150					°C	
Typical junction capacitance 4.0 V, 1 MHz		24.2						pF

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KBF201U thru KBF210U GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	KBF201U	KBF202U	KBF204U	KBF206U	KBF208U	KBF210U	Unit
Maximum instantaneous	I _F =1.0A		0.95						
forward voltage	I _F =2.0A	VF	1.0						Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		5.0						
	TA=125°C	IR	200						μΑ
	juntion to ambient	R ₀ JA	40						
Typical thermal resistance ¹⁾	juntion to case	RøJC	10				°C/W		

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

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

Figure 1. Forward Current Derating Curve

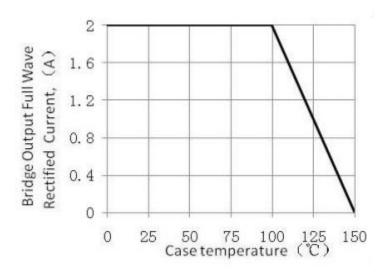


Figure 2.Maximum Non-Repetitive
Peak Forward Surge Current

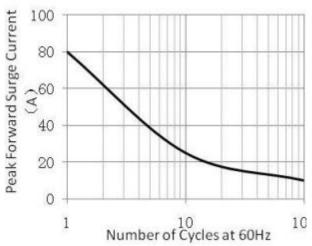


Figure 3. Typical Instantaneous Forward Characteristics

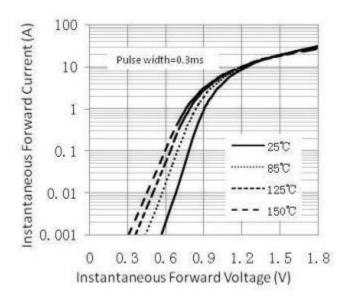
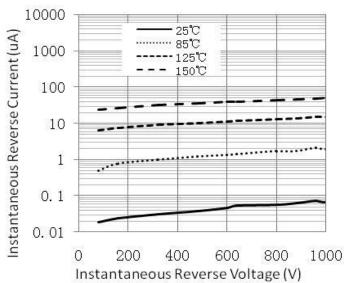


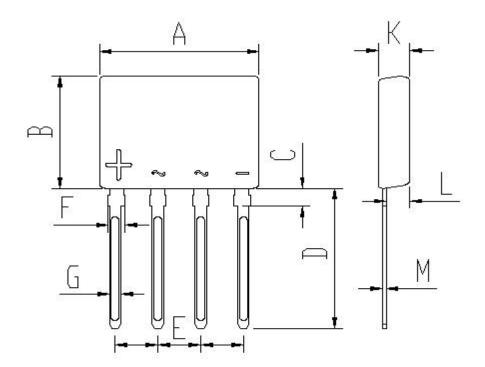
Figure 4. Typical Reverse Characteristics



Package Outline Dimensions

Unit:mm

First angle projection



	MIN	MAX				
Α	13.95	14.45				
В	10.80	11.20				
C	1.75 Typical					
D	13.50	14.00				
Е	3.61	4.01				
F	1.30	1.70				
G	0.80	1.10				
K	2.65	2.95				
L	2.00	2.20				
М	0.26	0.46				

elevation view

right elevation

Revision History

Document Version	Date of release	Discription of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/8	Modify document format

KBF201U thru KBF210U GOOD-ARK Electronics

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