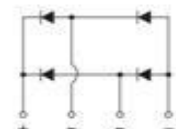
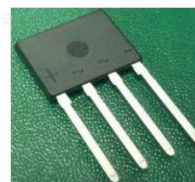


Reverse Voltage 100~1000V Ountput Current 2.0A

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	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	I _F =1.0A	V _F	0.95						Volts
	I _F =2.0A		1.1						
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5.0						µA
	TA=125°C		200						
Typical thermal resistance1)	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)

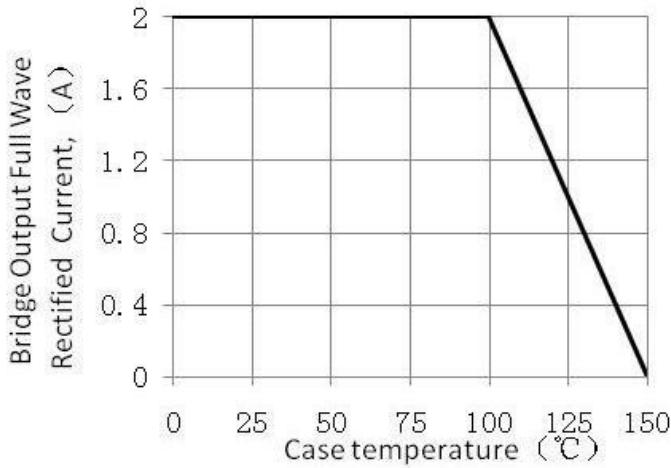


Figure 1. Forward Current Derating Curve

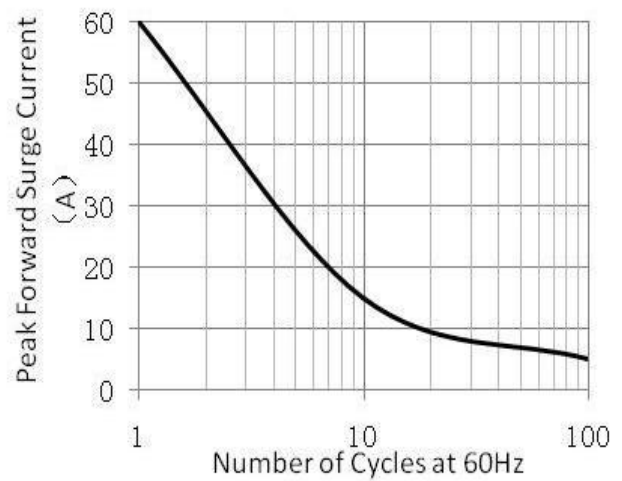


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

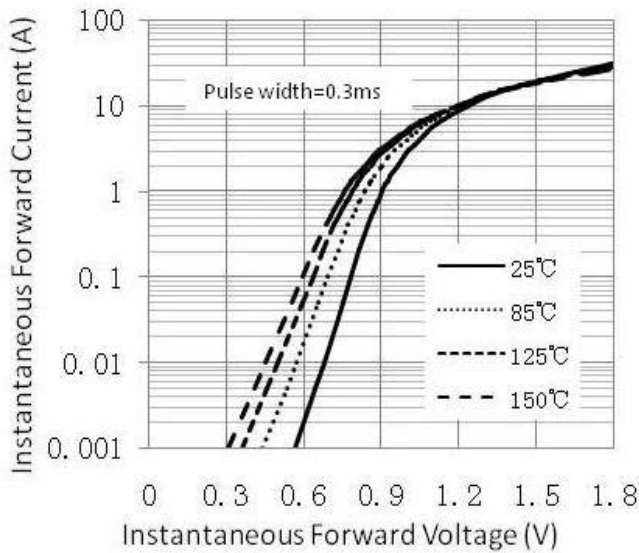


Figure 3. Typical Instantaneous Forward Characteristics

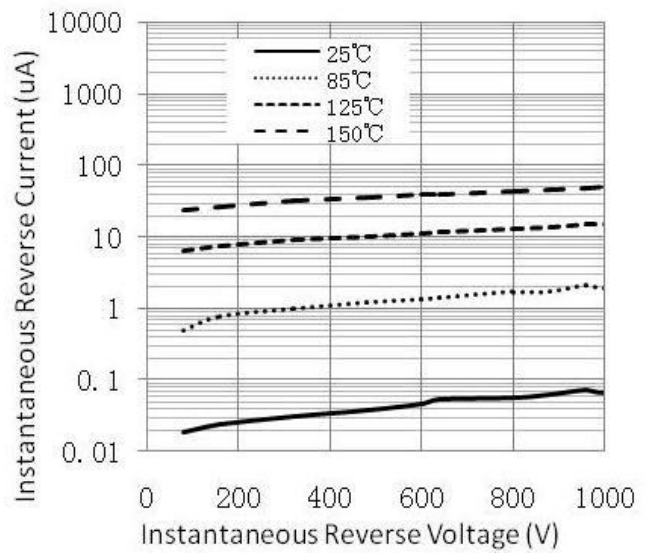
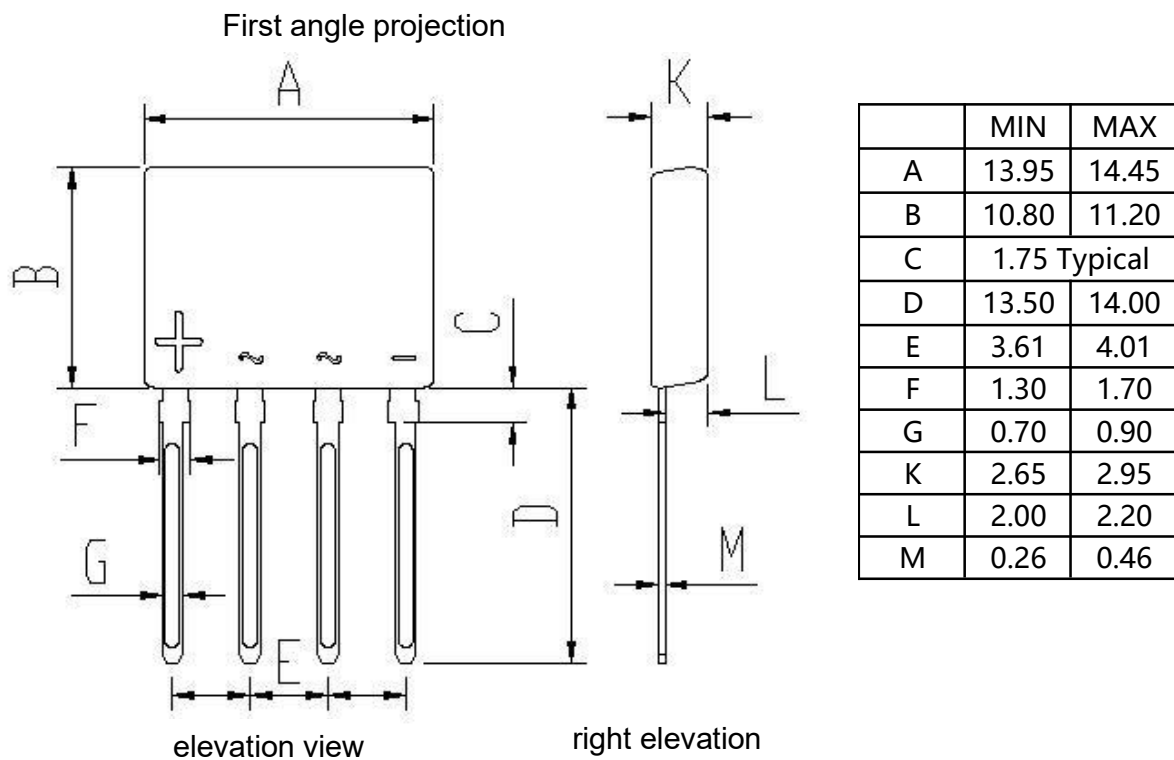


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions

Unit:mm



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

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