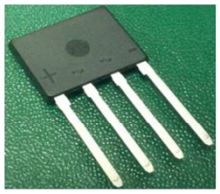
KBF201 thru KBF210

Glass Passivated Single-Phase Bridge Rectifier

Reverse Voltage 100~1000V Ountput Current 2.0A

Features



Case Style KBF

- Glass passivated Bridge Rectifiers
- Ideal for PCB
- High surge current capability
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Mechanical Data

- Case:KBF,Molding compound meets UL 94V-0 flammability rating
Base P/N with suffix"G" 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	KBF201	KBF202	KBF204	KBF206	KBF208	KBF210	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)	2.0						A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	60						A
Rating for fusing (t≤8.3ms)	I^2t	15						A^2s
Operating junction and storage temperature range	TJ, TSTG	-55 to 150						°C

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	V_F	0.95						Volts
	IF=2.0A		1.1						
Maximum DC reverse current at rated DC blocking voltage	TA=25℃	I_R	5.0						μA
	TA=125℃		200						
Typical junction capacitance	4.0 V, 1 MHz	C_J	16.7						pF

Thermal Characteristics (Ta=25℃ unless otherwixe noted)									
Parameter	**Test Conditions**	**Symbol**	**KBF201**	**KBF202**	**KBF204**	**KBF206**	**KBF208**	**KBF210**	**Unit**
Typical thermal resistance[1)]	juntion to ambient	$R_{\theta JA}$	28						℃/W
	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℃ unless otherwise noted)

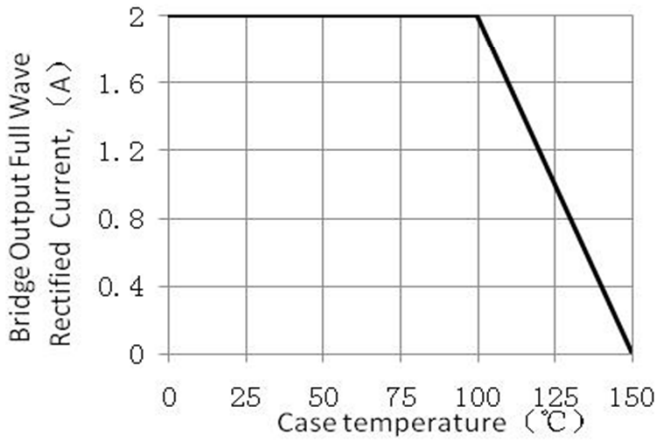


Figure 1.Forward Current Derating Curve

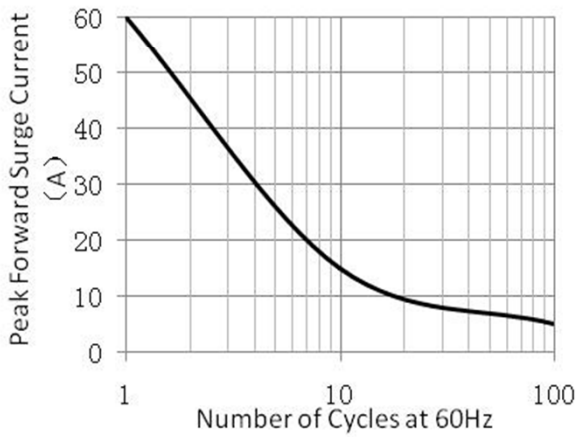


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

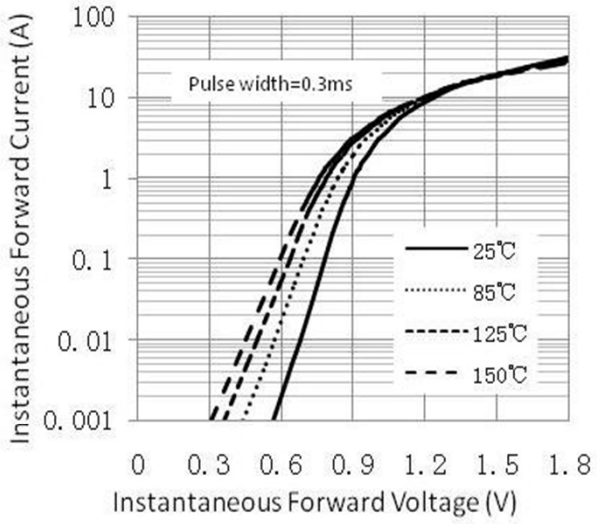


Figure 3. Typical Instantaneous Forward Characteristics

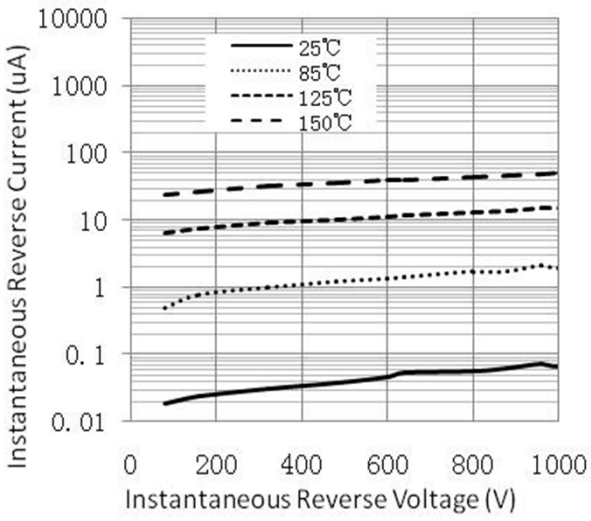
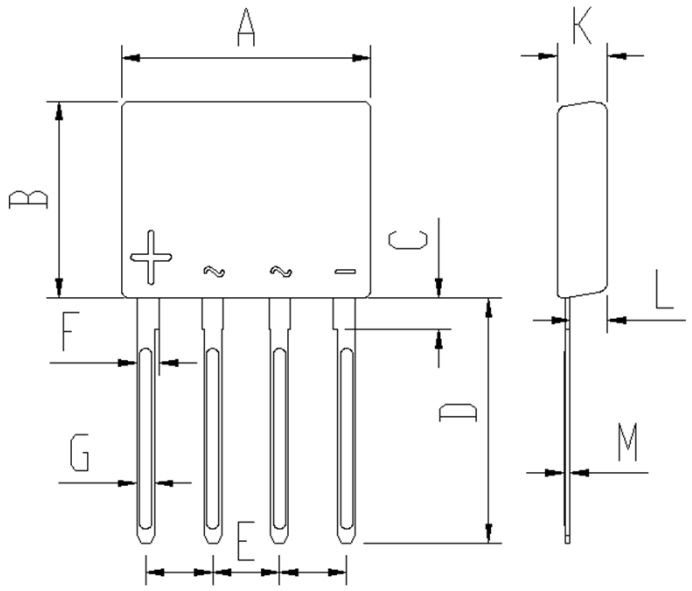


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions

Unit:mm



	MIN	MAX
A	14.0	14.5
B	10.8	11.2
C	1.75 Typical	
D	13.5	14.0
E	3.6	4.0
F	1.2	1.4
G	0.9	1.1
K	2.7	3.0
L	2.0	2.2
M	0.3	0.5

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