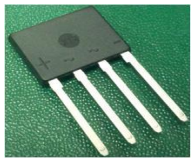
GOOD-ARK SEMICONDUCTOR

KBF201 thru KBF210

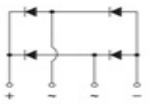
Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 100~1000V Output Current 2.0A

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℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition



Package: KBF



Schematic Diagram

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 MIl-STD-750 Method 2026,J-STD-002 and JESD22-B102,
  meets JESD 201 class 1A whisker test

Applications

General purpose use in ac-to-dc bridge full wave rectification for TV, monitors, SMPS, adapters, printers, audio equipment, and home applications.

Maximum Ratings (T_A = 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	$I_{o(AV)}$	2.0						A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	60						A
Rating for Fusing (t≤8.3ms)	I^2t	15						A^2s
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150						℃

Electrical Characteristics (T_A = 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	T_A=25℃	I_R	5.0						μA
	T_A=125℃		200						
Junction Capacitance	4.0 V, 1 MHz	C_J	16.7						pF

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Thermal Characteristics (T_A=25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	KBF201	KBF202	KBF204	KBF206	KBF208	KBF210	Unit
Typical Thermal Resistance[1)]	Juntion to Ambient	$R_{\theta JA}$	28						°C/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

(T_A = 25°C unless otherwise noted)

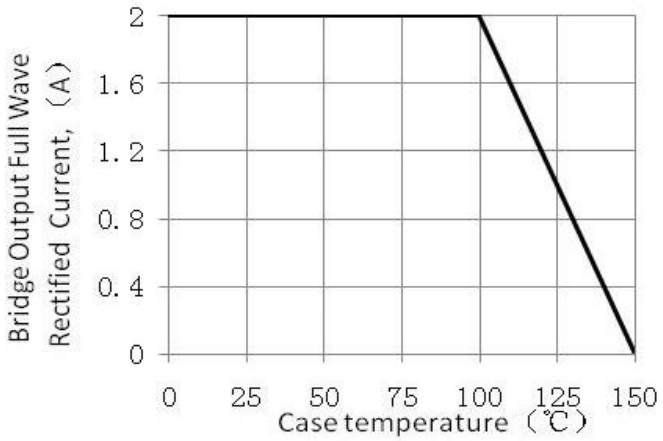


Figure 1.Forward Current Derating Curve

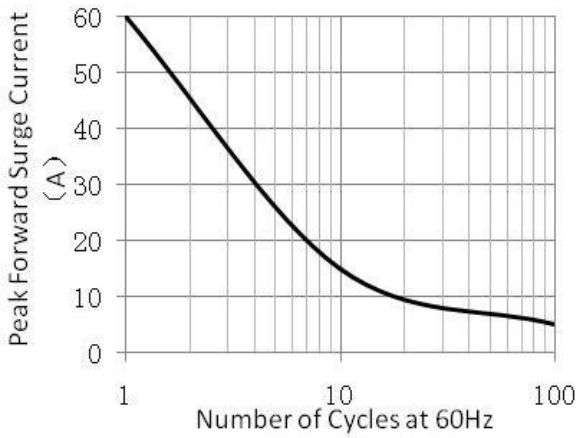


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

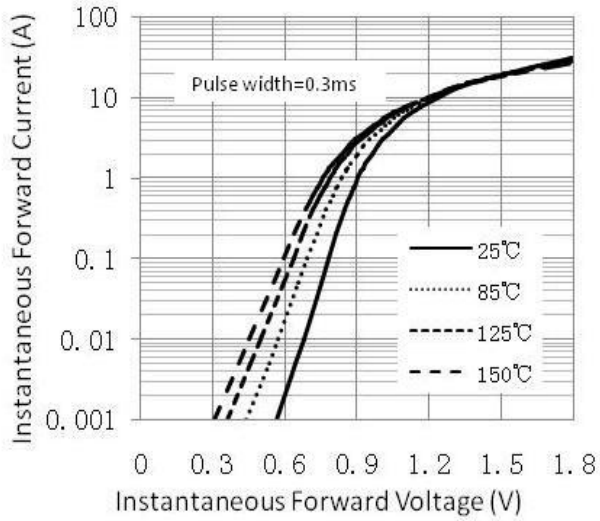


Figure 3. Typical Instantaneous Forward Characteristics

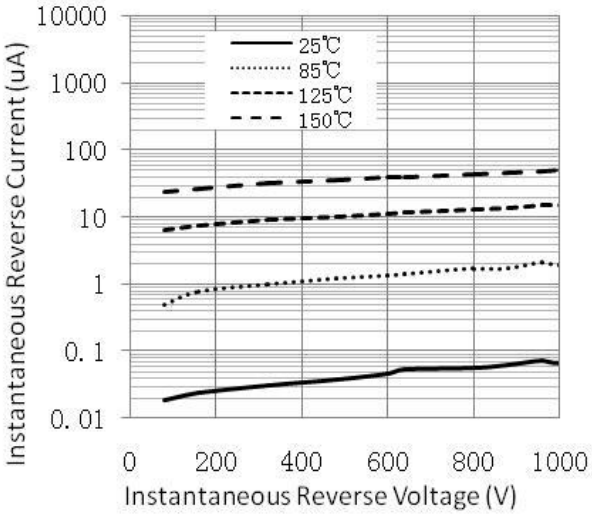


Figure 4. Typical Reverse Characteristics

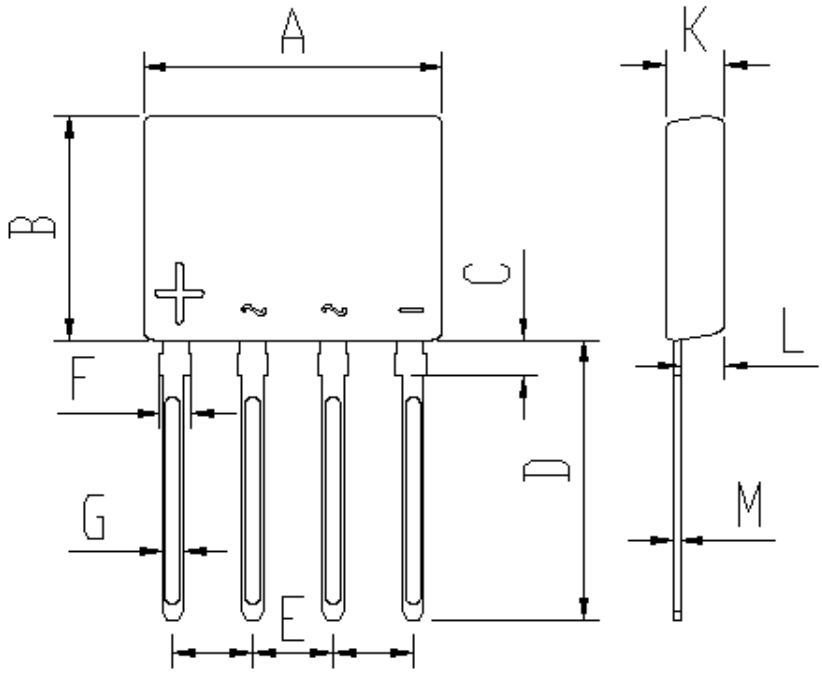
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Package Outline Dimensions

KBF



in mm

	MIN	MAX
A	13.95	14.45
B	10.80	11.20
C	1.75 Typical	
D	13.50	14.00
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

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