

6.0 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 100 to 1000V

SINGLE PHASE 6.0 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Surface mount bridge, small package;
- Ideal for printed circuit boards;
- Glass passivated chip junction;
- High forward current capability up to 6.0A;
- High surge current capability;
- High heat dissipation capability;
- Low profile package;
- Low forward voltage drop;
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0;

Mechanical Data

Case:KBF

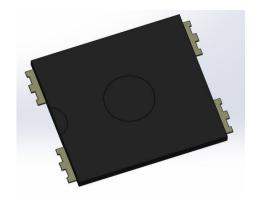
Epoxy meets UL-94V-0 Flammability rating;

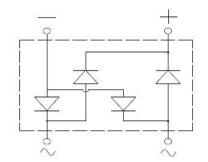
- Terminals:Matte tin plated leads, solderable per J-STD-002 and JESD22-B102;
- High temperature soldering guaranteed:
 Solder Reflow 260 ℃,10seconds;
- Polarity: As marked on body;
- Marking: Type number;



Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.





TYPE NUMBER	SYMBOL	KBF601	KBF602	KBF604	KBF606	KBF608	KBF610	UNITS
Peak Repetitive Reverse Voltage	Vrrm	100	200	400	600	800	1000	V
Working Peak Reverse Voltage DC Blocking Voltage	VRWM							
	VDC							
RMS Reverse Voltage	VRMS	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _C =100 ℃	IF(AV)	6.0				Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Iғsм	180				А		
I ² t Rating for Fusing (t < 8.3ms)	l²t	134				A ² s		
Forward Voltage per element @IF=3.0A @IF=6.0A	V _{FM}	0.95 1.0				V		
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lr	5.0 100				uA		
Typical Junction Capacitance (Note 2)	Сл	45				pF		
Typical Thermal Resistance (Note 3)	RөJA	75						°C/W
	Rejc	13						
Operating and Storage Temperature Range	Т _J ,Тsтg			-55to	+150			$^{\circ}$ C

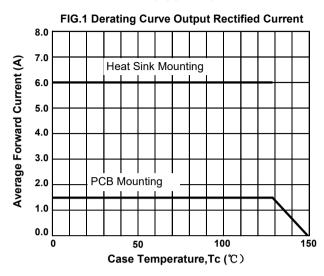
Note: 1. Mounted on glass epoxy PC board with 1.3mm solder pad.

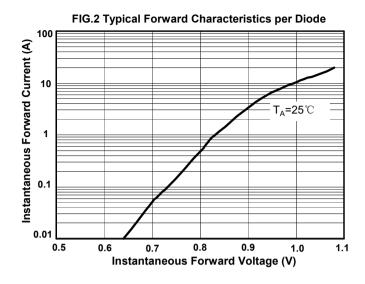
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Mounted on 15 mm*12 mm*1.6mmAL pad attach 195 mm*110 mm*10 mm steel plate

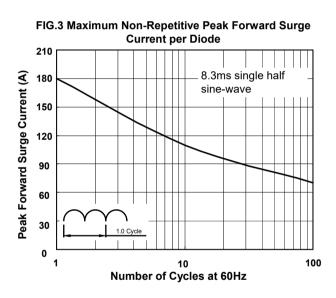
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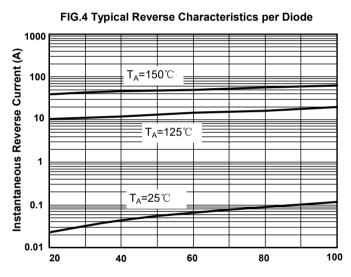
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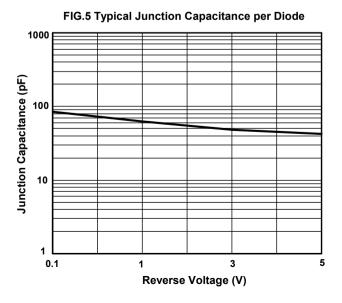
■ Characteristics(Typical)









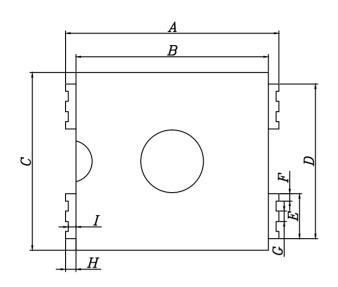


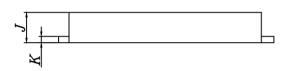


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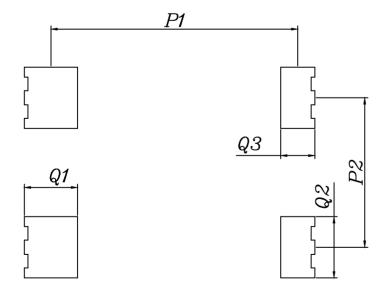
■ Outline Dimensions





KBF					
DIM	MIN	MAX			
A	10.5	10.9			
В	9. 10	9. 50			
С	8. 40	8.80			
D	7. 20	7. 60			
Е	2.00	2.30			
F	0.20	0.50			
G	0.35	0.65			
Н	0.55	0.85			
I	0.42	0.72			
J	1.40	1.80			
K	0. 20	0.40			
所有尺寸单位为毫米					

■ Suggested pad layout



KBF					
DIM	MIN	MAX			
P1	9. 1	9. 5			
P2	4.8	5. 2			
Q1	1.8	2.0			
Q2	2.0	2. 3			
Q3	1. 1	1. 4			
所有尺寸单位为毫米					