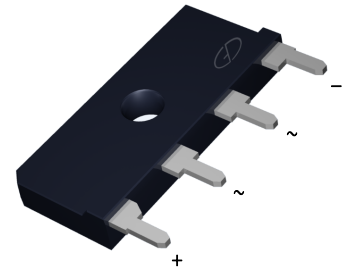


# **KBJL4JU-C thru KBJL4MU-C**

Glass Passivated Bridge Rectifiers  
 Reverse Voltage 600 to 1000V Forward Current 4A

## **Features**

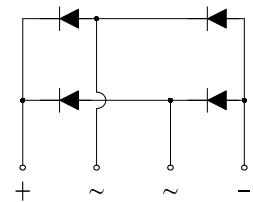
- Thin single In-line package
- Ideal for printed circuit boards
- Glass passivated chip junction
- Low profile package
- High surge current capability
- High case dielectric strength of 2000 VRMS
- Plastic package has Underwrites Laboratory



Package: KBJL-C

## **Mechanical Data**

- Case: KBJL-C
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for customer grade, meet JESD 201
- High temperature soldering guaranteed: Solder Dip 275°C, 40seconds
- Polarity: As marked on body
- Mounting Torque: 5.7cm·kg (5.0inches·lbs) max
- Recommend Torque: 5.7cm·kg (5inches·lbs)



Schematic Diagram



**RoHS**  
COMPLIANT

## **Maximum Ratings and Electrical Characteristics**

( $T_A=25^\circ\text{C}$  unless otherwise noted)

Parameter	Symbol	KBJL4JU-C	KBJL4KU-C	KBJL4MU-C	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_C=110^\circ\text{C}$ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	4.0 <sup>(1)</sup> 2.4 <sup>(2)</sup>			A
Peak Forward Surge Current (8.3 ms single sine-wave superimposed on rated load, JEDEC method)	$I_{FSM}$	120			A
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	60			A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage Drop per Leg at 2A	$V_F$	0.96			V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Leg $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	5 150			$\mu\text{A}$
Typical Thermal Resistance per Leg	$R_{\theta JA}$ $R_{\theta JC}$	26 <sup>(2)</sup> 2.2 <sup>(1)</sup>			$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150			$^\circ\text{C}$

### **Notes:**

- 1). Unit case mounted on Al plate heatsink
- 2). Units mounted on PCB without heatsink

## Typical Characteristic Curves

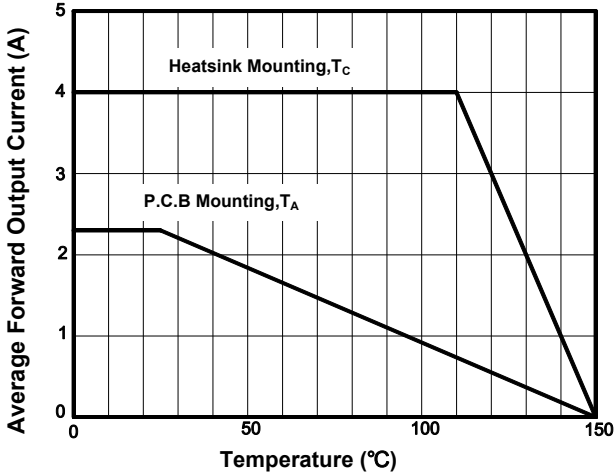


Figure 1. Derating Curve Output Rectified Current

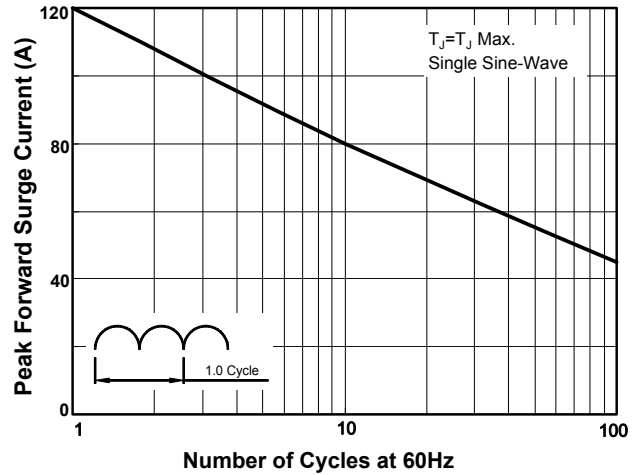


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current per Diode

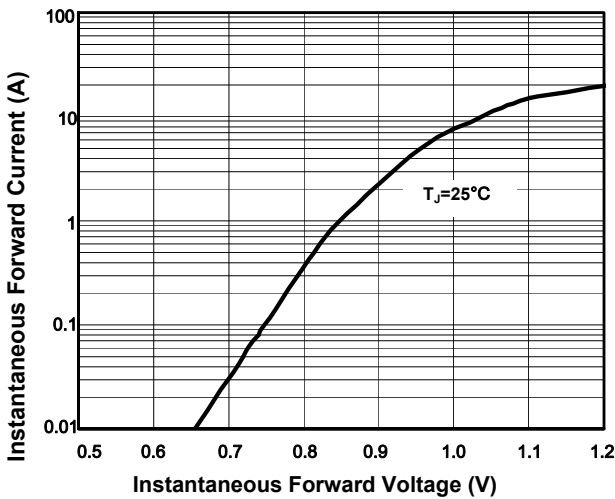


Figure 3. Typical Forward Characteristics Per Diode

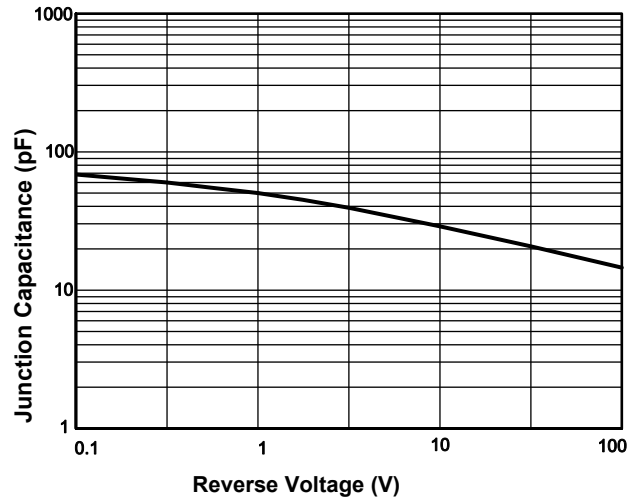


Figure 4. Typical Junction Capacitance Per Diode

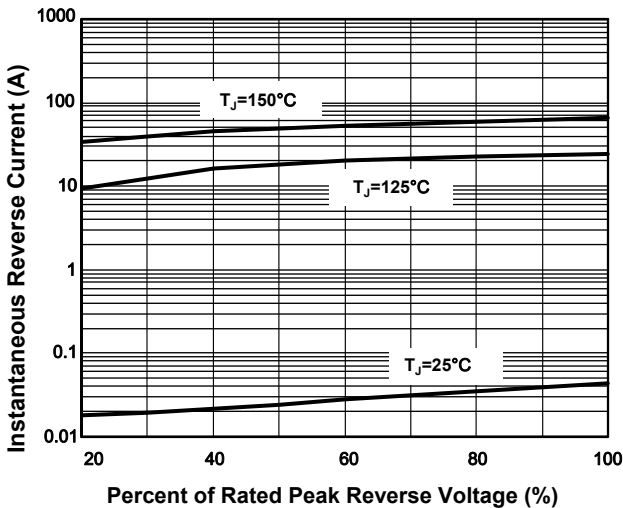


Figure 5. Typical Reverse Characteristics Per Diode

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## **Product Outline Dimensions**

in mm

**KBJL-C**

