

# **KBJL4J-C thru KBJL4M-C**

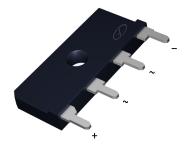
Glass Passivated Bridge Rectifiers Reverse Voltage 600 to 1000V Forward Current 4A

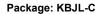
### **Features**

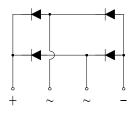
- Thin single In-line package
- Ideal for printed circuit boards
- Glass passivated chip junction
- Low profile package
- High surge current capability
- High case dielectric strength of 2000 V<sub>RMS</sub>
- Plastic package has Underwrites Laboratory

#### **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 Torgue: 5.7cm-kg (5.0inches-lbs) max
- Recommend Torgue: 5.7cm-kg (5inches-lbs)







Schematic Diagram



## **Maximum Ratings and Electrical Characteristics**

(T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	KBJL4J-C	KBJL4K-C	KBJL4M-C	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	V
	I <sub>F(AV)</sub>	4.0 <sup>(1)</sup> 2.0 <sup>(2)</sup>			Α
Peak Forward Surge Current (8.3 ms single sine-wave superimposed on rated load, JEDEC method)	I <sub>FSM</sub>	90			А
Rating for Fusing (t<8.3ms)	l <sup>2</sup> t		34		A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage Drop per Leg at 24	A V <sub>F</sub>	0.96			V
Maximum DC Reverse Current at Rated $T_A$ =25°C DC Blocking Voltage per Leg $T_A$ =125°C	I <sub>R</sub>	5 150			μA
Typical Thermal Resistance per Leg	$R_{\Theta JA} \ R_{\Theta JC}$	20 <sup>(2)</sup> 2.5 <sup>(1)</sup>			°C/W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$		-55 to +150		°C

#### Notes:

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



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### **Typical Characteristic Curves**

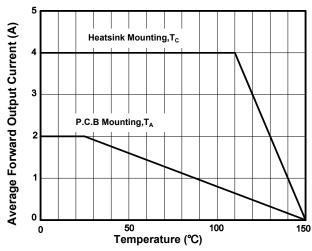


Figure 1. Derating Curve Output Rectified Current

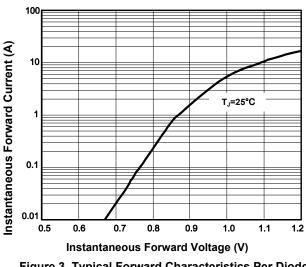


Figure 3. Typical Forward Characteristics Per Diode

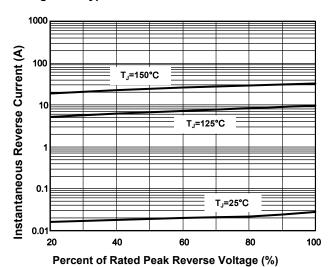


Figure 5. Typical Reverse Characteristics Per Diode

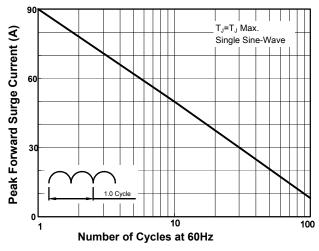


Figure 2. Maximum Non-Repetitive Peak Forward Sur **Current per Diode** 

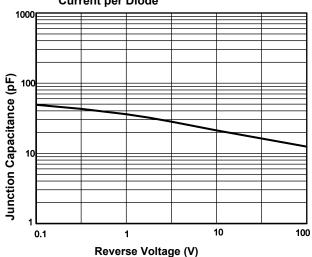


Figure 4. Typical Junction Capacitance Per Diode



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### **Product Outline Dimensions**

in mm KBJL-C

