

KBJL10M

Voltage 1000V 10.0 Amp Glass Passivated Bridge Rectifiers

RoHS compliant product

FEATURES

- Thin Single In-Line Package
- Ideal for Printed Circuit Boards
- Glass Passivated Chip Junction
- Low Profile Package
- High Surge Current Capability
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0

MECHANICAL DATA

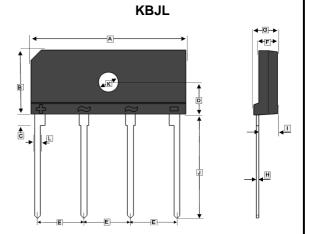
Case: KBJL

Epoxy meets UL-94V-0 Flammability Rating

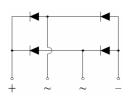
- Terminals: Matte Tin Plated Leads, Solderable per J-STD-002 and JESD22-B102, E3 Suffix for Customer Grade, meets JESD 201 Class 1A Whisker Test
- High Temperature Soldering Guaranteed: Solder Dip 275°C, 40seconds
- Polarity: As Marked on Body

ORDER INFORMATION

Part Number	Туре		
KBJL10M	Lead (Pb)-free		
KBJL10ME	Lead (Pb)-free and Halogen-free		



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.	KEF.	Min.	Max.
Α	24.7	25.3	G	3.6	4.0
В	10.0	10.6	Н	0.3	0.7
С	1.7	TYP.	J	17.7	18.7
D	5.5	5.9	K	3.0	3.4
Е	7.3	7.7	L	0.9	1.1
F	2.8	3.2			



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwis e specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1000	
Maximum RMS Voltage		VRMS	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	
Maximum Average Forward Rectified Output Current	T _C =110℃ ¹		10	A
	T _A =25℃ ²	l _F	3.1	
Peak Forward Surge Current, 8.3ms single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	180	А
Rating for Fusing @t<8.3ms		l ² t	134	A ² S
Maximum Instantaneous Forward Voltage Drop per leg @5A		VF	0.98	V
Maximum DC Reverse Current @Rated DC Blocking Voltage per leg	T _A =25℃		5	μA
	T _A =125℃	I _R	150	
Typical Thermal Resistance from Junction-Ambient ²		R _{0JA}	25	
Typical Thermal Resistance from Junction-Case ¹		Reлc	1.8	℃ /W
Operating Junction & Storage Temperature Range		T _J , T _{STG}	-55~150	C

Notes:

- 1. Unit case mounted on Al plate heatsink.
- 2. Units mounted on PCB without heatsink.
- 3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

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Any changes of specification will not be informed individually.

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RATINGS AND CHARACTERISTIC CURVES

Figure 1. Derating Curve Output Rectified Current

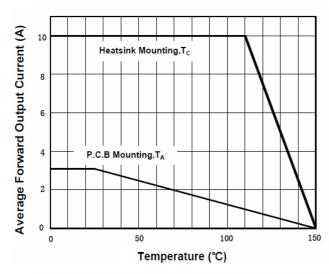


Figure 3. Typical Forward Characteristics Per Diode

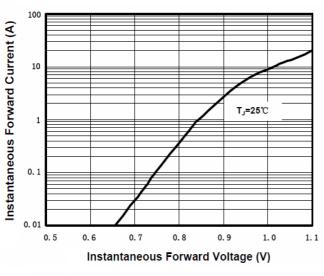


Figure 5. Typical Reverse Characteristics Per Diode

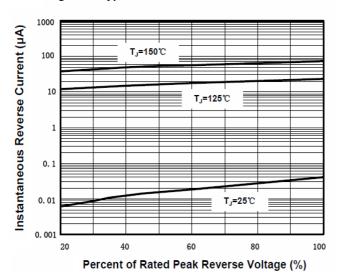


Figure 2. Maximum Non-Repetitive Peak Forward Surge
Current per Diode

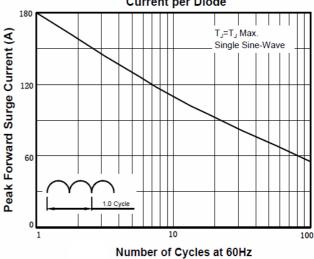
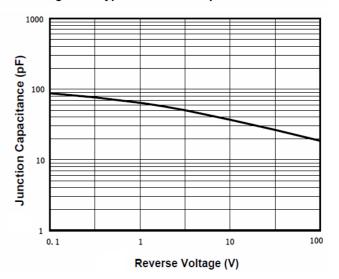


Figure 4. Typical Junction Capacitance Per Diode



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