



15A STANDARD RECOVERY BRIDGE RECTIFIER

Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 7.5A	I _R Max (μA)
600, 800, 1000	15	1.0	10

Mechanical Data

- Package: KBJL
- Package Material: Molded Plastic, "Green" Molding Compound.
 UL Flammability Classification Rating 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 ©3
- Weight: 2.4 grams (Approximate)

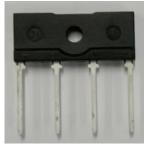
Features

- Glass Passivation Die Construction
- Ideal for Printed Circuit Board
- High Surge Current Capability
- UL Listed Under Recognized Component Index, File Number E95060
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Applications

- TV powers
- Game powers
- PC powers

KBJL





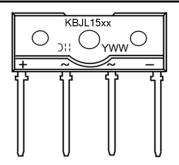
Ordering Information (Note 4)

Ordershie Bert Number	Dackers	Packing	
Orderable Part Number	Package	Qty.	Carrier
KBJL1506-TU	KBJL	20pcs	Tube
KBJL1508-TU	KBJL	20pcs	Tube
KBJL1510-TU	KBJL	20pcs	Tube

Notes: 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- $4. For packaging details, go to our website at \ https://www.diodes.com/design/support/packaging/diodes-packaging/.$

Marking Information



);; = Manufacturer's Code Marking
KBJL15xx = Product Type Marking Code
YWW = Date Code Marking
Y = Year (ex: 5 = 2025)
WW = Week (01 to 53)



Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic			Symbol	KBJL1506	KBJL1508	KBJL1510	Unit
Maximum Repetitive Peak Reverse Voltage		VRRM	600	800	1000	V	
Maximum DC Blocking Voltage			V_{DC}	600	800	1000	V
Average Rectified Output Current	age Rectified Output Current With Heatsink @Tc = +130°C Without Heatsink @Tc = +130°C		lF(AV)		15 2.8		Α
Peak Forward Surge Current 8.3ms Single Half Sine $T_J = +25$ °C Wave $T_J = +125$ °C (Note 5)		IFSM		220 176		Α	
114/		$T_J = +25^{\circ}C$ $T_J = +125^{\circ}C$ (Note 5)	IFSM		440 352		Α
I ² t Rating for Fusing (t = 8.3ms)		l ² t		200.8		A ² s	
Operating Temperature Range		TJ	=:	55 to +150		°C	
Storage Temperature Range		Tstg	=	55 to +150		°C	

Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

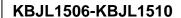
Characteristic	Test Condition		Symbol	Value	Unit
Maximum Forward Voltage	IF = 7.5A	$T_J = +25^{\circ}C$	VF	1.0	V
Maximum Leakage Current	V _R at Rated	$T_J = +25^{\circ}C$ $T_J = +125^{\circ}C$	I _R	10 500	μΑ
Typical Junction Capacitance (Note 6)			Ст	55	pF

Thermal Characteristics

Characteristic	Symbol	Value	Unit
	R _θ JC	5	
Typical Thermal Resistance (Without Heatsink)	Rejl	8	°C/W
	Reja	23	
	Rejc	1	
Typical Thermal Resistance (Note 7)	Rejl	3	°C/W
	Reja	4	

Notes:

- 5. Perform static test after the temperature of oven is steady 20 minutes.
- 6. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 7. Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 35mm * 35mm *1.7mm Cu heatsink.





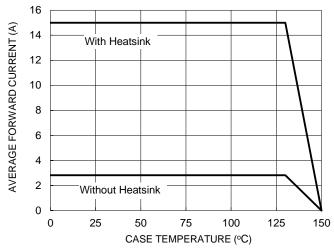


Figure 1. Forward Current Derating Curve

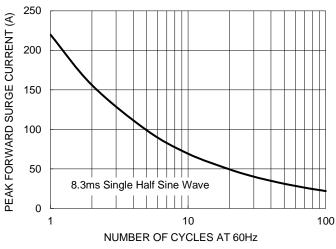


Figure 2. Maximum Non-Repetitive Surge Current

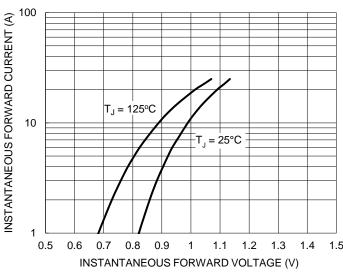


Figure 3. Typical Forward Characteristics

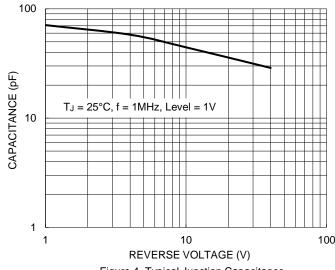


Figure 4. Typical Junction Capacitance

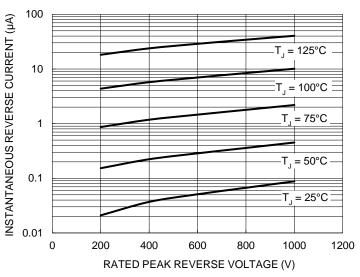


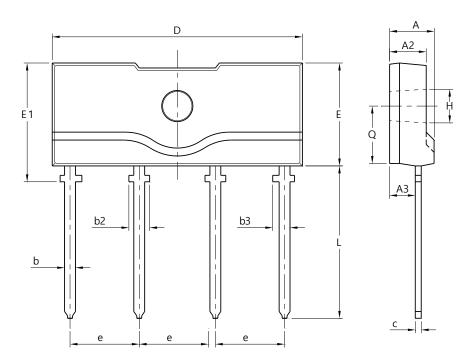
Figure 5. Typical Reverse Characteristics



Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.

KBJL



KBJL					
Dim	Min	Max			
Α	3.90	4.50			
A2	2.90	3.90			
А3	2.0	2.60			
b	0.90	1.10			
b2	2.10	2.30			
b3		1.75			
С	0.40	0.60			
D	24.70	25.30			
E	10.0	10.60			
E1	11.40	12.00			
е	7.30	7.70			
Н	3.10	3.40			
L	14.60	15.20			
Q	5.40	6.00			
All Dimensions in mm					



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