



Product Summary

VRRM (V)	IF (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)

15A STANDARD RECOVERY BRIDGE RECTIFIER

Features

- Glass Passivation Die Construction
- Ideal for Printed Circuit Board
- High Surge Current Capability
- UL Certification Is Under Applying
- 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 <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>

Applications

- TV powers
- Game powers
- PC powers

KBJL



Ordering Information (Note 4)

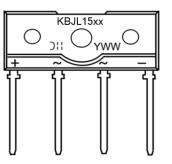
Part Number	Backago	Packing		
Fait Nulliper	Package	Qty.	Carrier	
KBJL1506-TU	KBJL	20pcs	Tube	
KBJL1508-TU	KBJL	20pcs	Tube	
KBJL1510-TU	KBJL	20pcs	Tube	

Notes: 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
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: 3 = 2023) 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	With Heatsink Without Heatsink	@Tc = +130°C @Tc = +130°C	lF(AV)		15 2.8		А
Peak Forward Surge Current 8.3ms S Wave	Single Half Sine	TJ = +25°C TJ = +125°C (Note 5)	IFSM		220 176		А
Peak Forward Surge Current 1.0ms Single Half Sine $T_J = +25^{\circ}C$ Wave $T_J = +125^{\circ}C$ (Note		T _J = +25°C T _J = +125°C (Note 5)	IFSM		440 352		А
I ² t Rating for Fusing (t = 8.3ms)		l ² t		200.8		A ² s	
Operating Temperature Range		ТJ	-	55 to +150		°C	
Storage Temperature Range		Tstg	-	55 to +150		°C	

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

Characteristic	Test	Test Condition		Test Condition		Value	Unit
Maximum Forward Voltage	IF = 7.5A	TJ = +25°C	VF	1.0	V		
Maximum Leakage Current	V _R at Rated	TJ = +25°C TJ = +125°C	I _R	10 500	μΑ		
Typical Junction Capacitance (Note 6)			Ст	55	pF		

Thermal Characteristics

Characteristic	Symbol	Value	Unit
	Rejc	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	

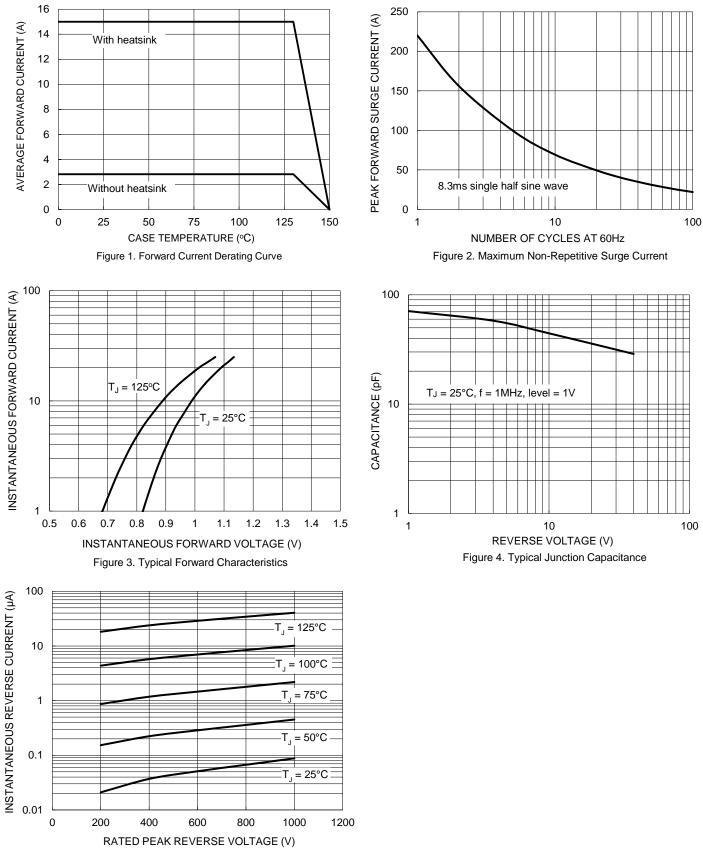
Notes:

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.



KBJL1506-KBJL1510



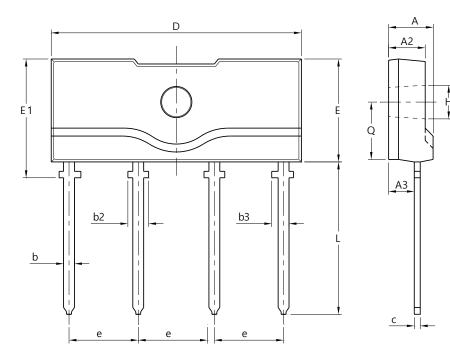
KBJL1506-KBJL1510 Document number: DS45590 Rev. 1 - 2



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			
A3	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			
Е	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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