



KBJ15L08

15A LOW VF BRIDGE RECTIFIER

Product Summary

	-		
Vrrm (V)	I⊧(A)	VF Max (V) @ IF = 7.5A	I _R Max (μA)
800	15	0.9	10

Mechanical Data

- Package: KBJ
- Package Material: Plastic Material, UL Flammability Classification 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (23)
- Polarity Indicator: As Marked on The Body
- Weight: 4.6 grams (Approximate)
- Mounting Position: Any

Features

- Glass Passivated Die Construction
- Low-Forward Voltage Drop
- Ideal for Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- UL Recognized File # 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 <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>



Ordering Information (Note 4)

Part Number	Package	Packing	
Fait Nulliper		Qty.	Carrier
KBJ15L08	KBJ	20pcs	Tube

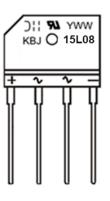
Notes: 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

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



KBJ15L08 = Product Type Marking Code)'' = Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 3 = 2023) WW = Week Code (01 to 53)



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

Characteristic	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	800	V
Average Rectified Output CurrentWith Heatsink@T _C = +125°CWithout Heatsink	lf(AV)	15 3.9	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave $T_J = +25^{\circ}C$	I _{FSM}	200	А
I ² t Rating for Fusing (t = 8.3ms)	l ² t	166	A ² s
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

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

Characteristic	Test C	Condition	Symbol	Мах	Unit
Forward Voltage	I _F = 7.5A	T _J = +25°C	VF	0.90	V
Leakage Current	V _R at 800V	TJ = +25°C TJ = +125°C	I _R	10.0 500	μA
Typical Junction Capacitance (Note 5)			Ст	165	pF

Thermal Characteristics

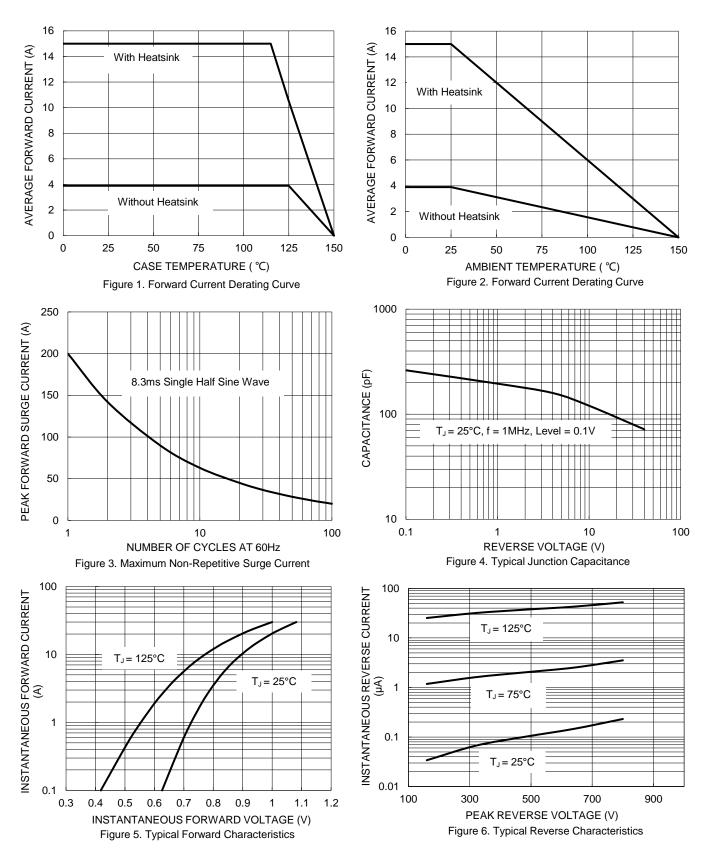
Characteristic	Symbol	Тур	Unit
	Rejc	6	
Typical Thermal Resistance (Without Heatsink)	R _{0JL}	9	°C/W
	R _{0JA}	28	
	R _{θJC}	1.5	
Typical Thermal Resistance (Notes 6 & 7)	Rejl	2.5	°C/W
	Reja	6	

Notes: 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

6. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

7. Device mounted on 200mm x 200mm x 5mm Al plate heatsink.

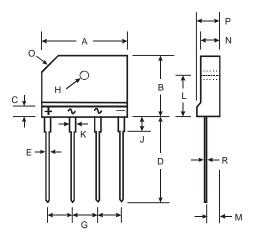






Package Outline Dimensions

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



	KBJ	
Dim	Min	Max
Α	24.80	25.20
В	14.70	15.30
С	3.90	4.10
D	17.20	17.80
E	0.90	1.10
G	7.30	7.70
Н	3.10Ø	3.40Ø
J	3.30	3.70
κ	1.50	1.90
L	9.30	9.70
М	2.50	2.90
Ν	3.40	3.80
0	3.0 x 45°	
Р	4.40	4.80
R	0.60	0.80
All Dimensions in mm		

KBJ



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