



10A LOW VF BRIDGE RECTIFIER

Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 5A	I _R Max (μA)
800	10	0.9	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)

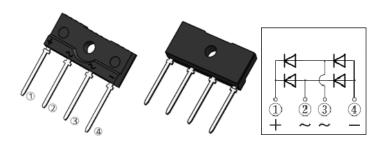
Features

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

Applications

- TV power
- Game power
- PC power

KBJL



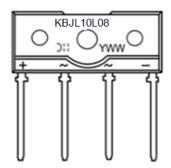
Ordering Information (Note 4)

Orderable Part Number	Dockoro	Packing		
	Раскаде	Qty.	Carrier	
KBJL10L08	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



O!! = Manufacturer's Code Marking
KBJL10L08 = 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			Value	Unit
Maximum Repetitive Peak Reverse Voltage		VRRM	800	V
Maximum DC Blocking Voltage		V_{DC}	800	V
Average Rectified Output Current With Heatsink Without Heatsink		IF(AV)	10 3.3	Α
Peak Forward Surge Current 8.3ms Single Half Sine Wave T _J = +25°C		IFSM	180	Α
Peak Forward Surge Current 1.0ms Single Half Sine Wave T _J = +25°C		IFSM	360	Α
I ² t Rating for Fusing (t = 8.3ms)			135	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	Min	Тур	Max	Unit
Maximum Forward Voltage	I _F = 5A	T _J = +25°C	V_{F}		0.85	0.9	V
Maximum Leakage Current	V _R at 800V	T _J = +25°C T _J = +125°C	IR	_	_	10 500	μΑ
Typical Junction Capacitance (Note 5)			CT		115		pF

Thermal Characteristics

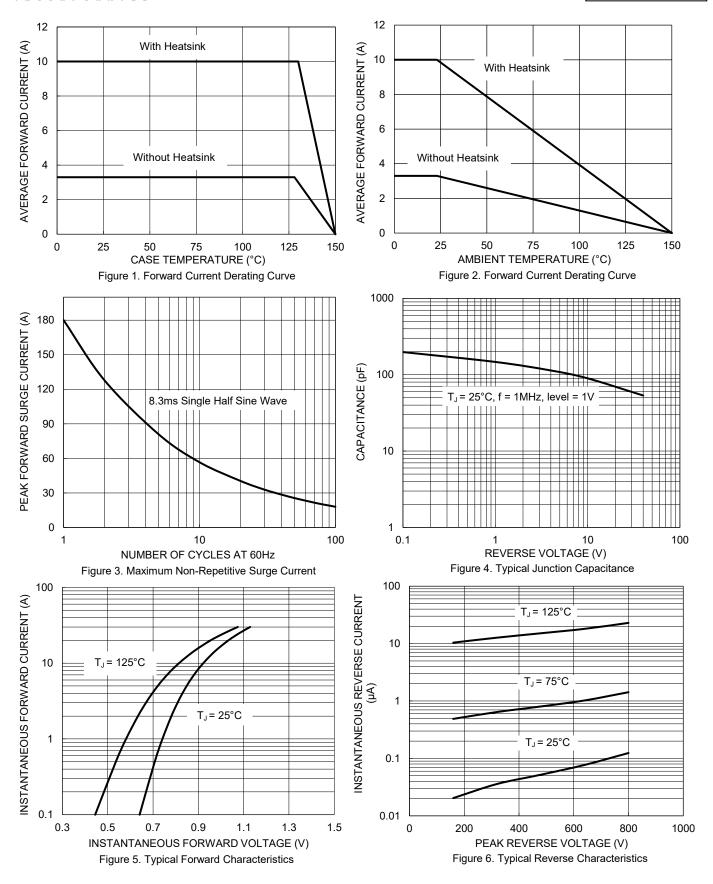
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (Without Heatsink)	Rejc Rejl Reja	6 10 33	°C/W
Typical Thermal Resistance (Note 6)	Rejc Rejl Reja	2 4 10	°C/W

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. Device mounted on 100mmX100mmX1.6mm copper plate heatsink.



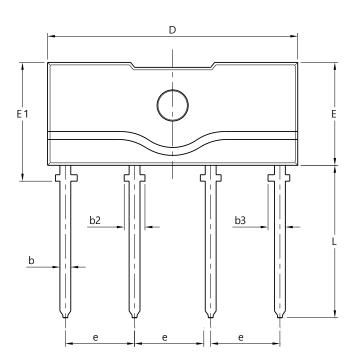


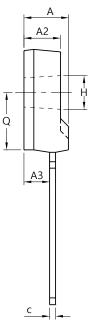


Package Outline Dimensions

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		
E	10.0	10.60		
E1	11.40	12.00		
е	7.30	7.70		
H	3.10	3.40		
L	14.60	15.20		
Q	5.40	6.00		
All Dimensions in mm				



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