



Product Summary

Vrrm (V)	IF (A)	V _F Max (V) @ I _F = 5.0A	I _R Max (μA)
600, 800, 1000	10	1.1	5

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 @3
- Polarity Indicator: As Marked on The Body
- Weight: 4.6 grams (Approximate)
- Mounting Position: Any

10A STANDARD RECOVERY BRIDGE RECTIFIER

Features

- **Glass Passivated Die Construction** .
- Rating to 1000V PRV
- Ideal for Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- UL Recognized File # E94661
- 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 gualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/



Ordering Information (Note 4)

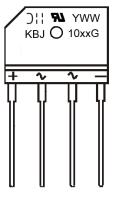
Dort Number	Number Qualification	Deckere	Packing		
Fart Number		Package	Qty.	Carrier	
KBJ1006G-TU	Commercial	KBJ	20	Tube	
KBJ1008G-TU	Commercial	KBJ	20	Tube	
KBJ1010G-TU	Commercial	KBJ	20	Tube	

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

2. See https://www.diodes.com/guality/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



KBJ10xxG = Product Type Marking Code Dil = Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 1 = 2021)WW = Week Code (01 to 53)



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

Characteristic	Symbol	KBJ1006G	KBJ1008G	KBJ1010G	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	600	800	1000	V
Maximum RMS Voltage	Vrms	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	600	800	1000	V
Average Rectified Output Current With Heatsink @T _C = +110°C Without Heatsink	lf(AV)		10 3.0		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave $T_J = +25^{\circ}C$	IFSM		170		А
I ² t Rating for Fusing (t = 8.3ms)	l ² t		120		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 C	Condition	Symbol	Мах	Unit
Forward Voltage	IF = 5.0A	T _J = +25°C	VF	1.1	V
Leakage Current	V_R at Rated	T _J = +25°C T _J = +125°C	I _R	5.0 500	μA
Typical Junction Capacitance (Note 5)			CJ	45	pF

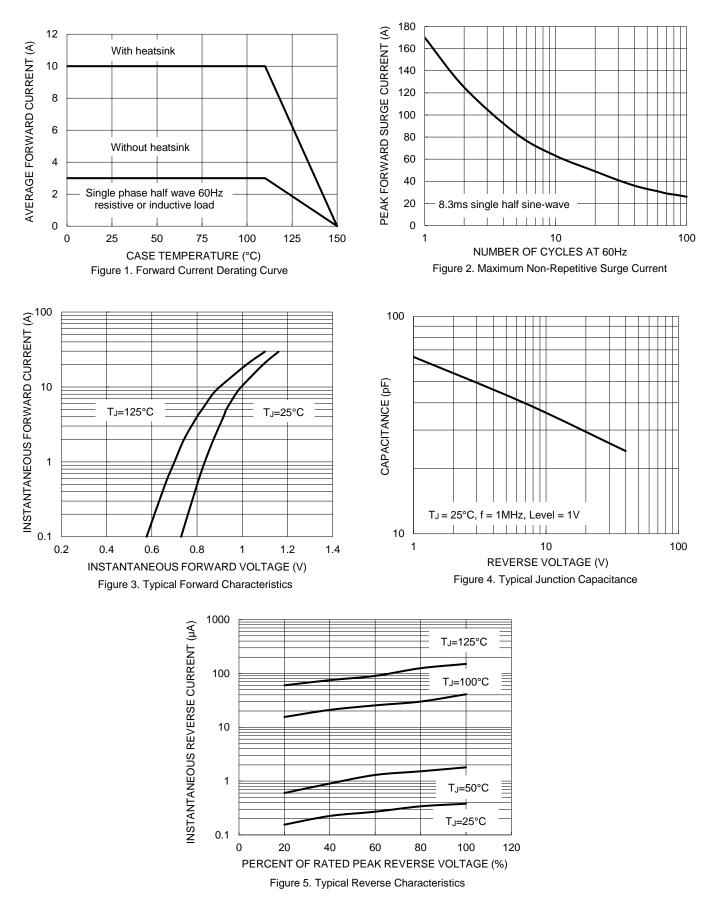
Thermal Characteristics

Characteristic	Symbol	Тур.	Unit
Typical Thermal Resistance (Note 6)	Rejc	2.0	°C/W

 Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
Unit mounted on 150mm * 150mm * 1.6mm cu plate heatsink. Notes:



KBJ1006G - KBJ1010G

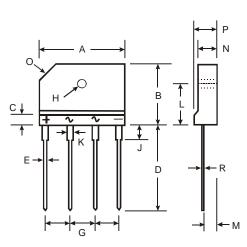




Package Outline Dimensions

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

KBJ



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		
К	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				



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