



1.5A STANDARD RECOVERY BRIDGE RECTIFIER

Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 1.5A	I _R Max (μA)
50/100/200/400/600/ 800/1000	1.5	1.1	5

Mechanical Data

- Package: KBP
- Package Material: Plastic Material, UL Flammability Classification 94V-0
- Terminals: Finish Matte Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity Indicator: As Marked on the Body
- Weight: 1.52 grams (Approximate)

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 40A Peak
- Ideal for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File Number F95060
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- 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/

KBP





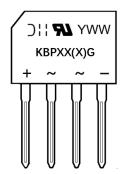
Ordering Information (Note 3)

Oudewahle Bent Neurahan	Deckers	Pac	Packing		
Orderable Part Number	Package	Qty.	Carrier		
KBP005G	KBP	35pcs	Tube		
KBP01G	KBP	35pcs	Tube		
KBP02G	KBP	35pcs	Tube		
KBP04G	KBP	35pcs	Tube		
KBP06G	KBP	35pcs	Tube		
KBP08G	KBP	35pcs	Tube		
KBP10G	KBP	35pcs	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. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



KBPXXG = Product Type Marking Code, ex: KBP01G, KBP02G, KBP04G, KBP06G, KBP08G, KBP10G KBPXXXG = Product Type Marking Code, ex: KBP005G DII = Manufacturer's Code Marking YWW = Date Code Marking Y = Last Digit of Year (ex: 5 = 2025) WW = Week Code (01 to 53)



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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP005G	KBP01G	KBP02G	KBP04G	KBP06G	KBP08G	KBP10G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @Tc = +105°C	lo	1.5					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	IFSM	40				Α			
I ² t Rating for Fusing (t = 8.3ms)	I ² t	6.6				A ² s			
Operating Temperature Range	TJ	-55 to +150				°C			
Storage Temperature Range	T _{STG}	-55 to +150				°C			

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

Characteristic	Test Conditions		Symbol	Min	Тур	Max	Unit
Breakdown Voltage (Note 4)	I _R = 5μA, T _J = +25°C		VB	50/100/200/400 /600/800/1000			V
Forward Voltage	I _F = 1.5A, T _J = +25°C		VF	_	_	1.1	V
Leakage Current (Note 4)	V _R at Rated	T _J = +25°C T _J = +125°C	I _R	_		5 500	μΑ
Typical Junction Capacitance (Note 5)		Ст	20		pF		

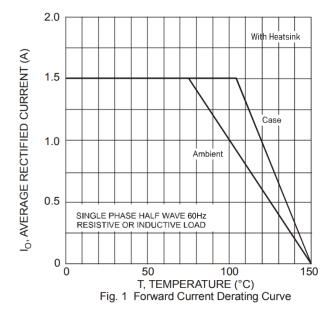
Thermal Characteristics

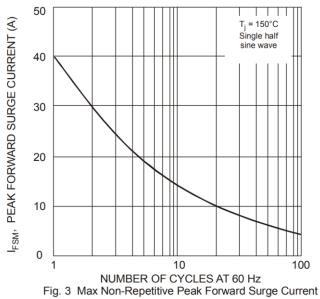
Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Note 5)	R ₀ JC	18	°C/W

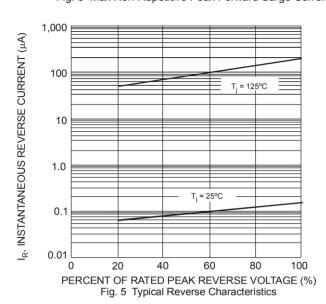
Notes:

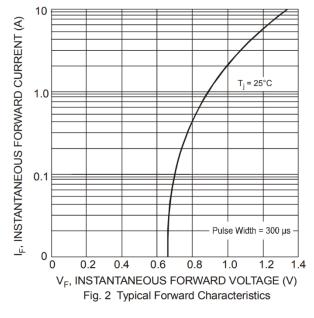
- 4. Short duration pulse test used to minimize self-heating effect.
- 5. Thermal resistance from junction to case per element. Device mounted on 75mm x 75mm x 1.6mm Cu plate heatsink.

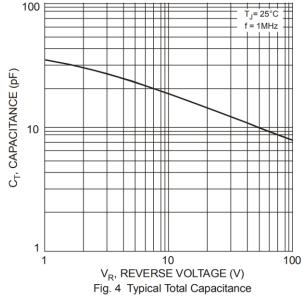








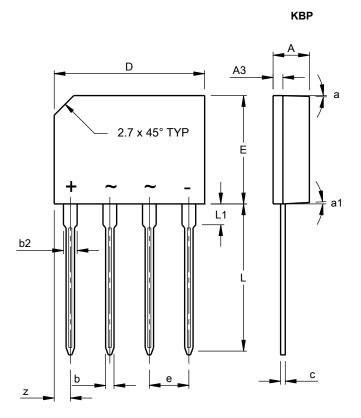






Package Outline Dimensions

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



КВР						
Dim	Min	Max	Тур.			
Α	3.35	3.65	-			
А3	0.80	1.10				
b	0.76	0.86	ı			
b2	1.22	1.42	ı			
С	0.35	0.55	ı			
D	14.25	14.75	ı			
Е	10.20	10.60	ı			
е	3.56	4.06	ı			
L	14.25	14.73	1			
L1	1.80	2.20	-			
Z	1.40	1.70	-			
а	-	-	3°			
a1	-	-	2°			
All Dimensions in mm						



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