



2.0A SURFACE MOUNT FAST GLASS PASSIVATED BRIDGE RECTIFIER

Product Summary (@T_A = +25°C)

Description and Applications

and telecommunication applications.

V _{RRM} (V)	I ₀ (A)	V _F (V)	Ι _R (μΑ)
200, 400, 600, 800, 1000	2.0	1.3	5

Suitable for AC to DC bridge full wave rectification for SMPS, LED

lighting, adapter, battery charger, home appliances, office equipment,

Features and Benefits

- Glass Passivated Die Construction
- Miniature Surface Mount Package Saves Space on PC Boards
- High Current Capability
- Fast Reverse Recovery Time Suitable for High Frequency
 Applications
- Low Forward Voltage Drop
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

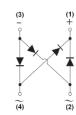
Mechanical Data

- Case: SOPA-4 (Type B)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Lead Free Plating (Matte Tin Finish). Solderable per MIL-STD-202, Method 208 (23)
- Polarity: As marked on Body
- Weight: 0.089 grams (Approximate)



Top View





Pin Diagram

Internal Schematic

Ordering Information (Note 4)

Part Number	Compliance	Case	Packaging
RABF210-13	Commercial	SOPA-4 (Type B)	5,000/Tape & Reel
RABF28-13	Commercial	SOPA-4 (Type B)	5,000/Tape & Reel
RABF26-13	Commercial	SOPA-4 (Type B)	5,000/Tape & Reel
RABF24-13	Commercial	SOPA-4 (Type B)	5,000/Tape & Reel
RABF22-13	Commercial	SOPA-4 (Type B)	5,000/Tape & Reel

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

<u> </u>	
- + DHYMD RABF2x(x)	

RABF2x(x) = Product Type Marking Code

Code Marking Code Marking

Y = Last Digit of Year (ex: 8 = 2018)

M = See Month/Code Table Below

D = Day 1 to 9 = 1 to 9; Day 10 to 31 = A to V

Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D



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

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic			RABF22	RABF24	RABF26	RABF28	RABF210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage			200	400	600	800	1000	V
RMS Reverse Voltage			140	280	420	560	700	V
Average Rectified Output Current (Note 5) @ $T_C = +100^{\circ}C$			2.0					А
Non-Repetitive Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load			60					А
I ² t Rating for Fusing (1ms < t < 8.3ms)			14.94					A ² S
Maximum Forward Voltage (Per Element) @I _F = 2.0A			1.3				V	
Maximum Reverse Recovery Time (Note 6)			150 250 500			00	ns	
Peak Reverse Current $@T_A = +25^{\circ}C$ At Rated DC Blocking Voltage (Note 7) $@T_A = +125^{\circ}C$					5.0 200			μA
Typical Total Capacitance (Per Element) (Note 8)					17			ns

Thermal Characteristics

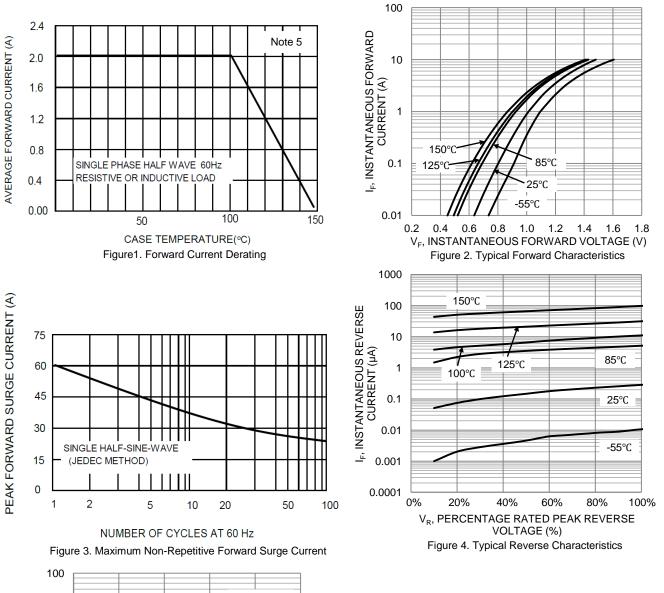
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 5) (Per Element)	$R_{\theta JA}$	63	°C/W
Typical Thermal Resistance, Junction to Lead (Per Element)	$R_{\theta JL}$	25	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

Notes: 5. Device mounted on aluminum substrate PC board with 1.3mm² solder pad.

6. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 7. Short duration pulse test used to minimize self-heating effect. 8. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.



RABF22-RABF210



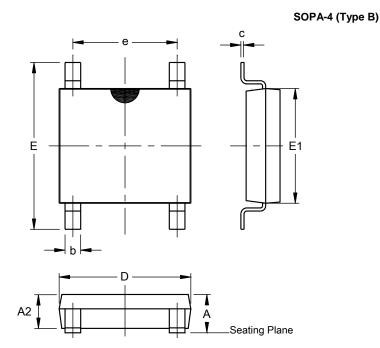
NEW PRODUCT

RABF22-RABF210 Document number: DS39836 Rev. 2 - 2



Package Outline Dimensions

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

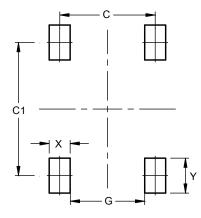


SOPA-4 (Type B)						
Dim	Min	Max	Тур			
Α	1.15	1.30				
A2	1.00	1.25				
b	0.50	0.70				
С	0.15	0.25				
D	4.80	5.30				
Е	6.00	6.80				
E1	4.20	4.60				
е	3.80	4.20				
All	All Dimensions in mm					

Suggested Pad Layout

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





Dimensions	Value (in mm)
С	4.10
C1	5.72
G	3.20
Х	0.90
Y	1.50



IMPORTANT NOTICE

DIODES INCORPORATED MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. Diodes Incorporated does not assume any liability arising out of the application or use of this document or any product described herein; neither does Diodes Incorporated convey any license under its patent or trademark rights, nor the rights of others. Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on Diodes Incorporated website, harmless against all damages.

Diodes Incorporated does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel. Should Customers purchase or use Diodes Incorporated products for any unintended or unauthorized application, Customers shall indemnify and hold Diodes Incorporated and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.

Products described herein may be covered by one or more United States, international or foreign patents pending. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks.

This document is written in English but may be translated into multiple languages for reference. Only the English version of this document is the final and determinative format released by Diodes Incorporated.

LIFE SUPPORT

Diodes Incorporated products are specifically not authorized for use as critical components in life support devices or systems without the express written approval of the Chief Executive Officer of Diodes Incorporated. As used herein:

- A. Life support devices or systems are devices or systems which:
 - 1. are intended to implant into the body, or
 - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
- B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

Copyright © 2018, Diodes Incorporated

www.diodes.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers category:

Click to view products by Diodes Incorporated manufacturer:

Other Similar products are found below :

 MB2510
 MB252
 MB356G
 MB358G
 GBJ1504-BP
 GBU15J-BP
 GBU15K-BP
 GBU4A-BP
 GBU6B-E3/45
 GSIB680-E3/45
 DB101-BP

 DF01
 DF10SA-E345
 BU1508-E3/45
 KBPC50-10S
 RS405GL-BP
 G5SBA60-E3/51
 GBU10J-BP
 GBU6M
 GBU8D-BP
 GBU8J-BP

 2KBB10
 36MB140A
 TB102M
 MB1510
 MB258
 MB6M-G
 MB86
 TL401G
 MDA920A2
 TU602
 TU810
 MP501W-BP
 MP502-BP

 BR101-BP
 BR84DTP204
 BU2008-E3/51
 KBPC10/15/2501WP
 KBPC25-02
 DF06SA-E345
 DF1510S
 VS-40MT160PAPBF
 GBL02-E3/45

 GBU4G-BP
 GBJ2506-BP
 GBU6B-E3/51
 GSIB15A80-E3/45
 DB104-BP
 TB354
 70MT160KPBF