



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

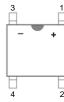
- Glass Passivated Die Construction
- Miniature Surface Mount Package Saves Space on PC Boards
- High Current Capability
- Fast Reverse Recovery Time Suitable for High Frequency Applications
- Low Forward Voltage Drop
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green"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

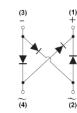
Mechanical Data

- 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.</p>

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

YMD = Date 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	Ν	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		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	T _{J,} T _{STG}	-55 to +150	°C

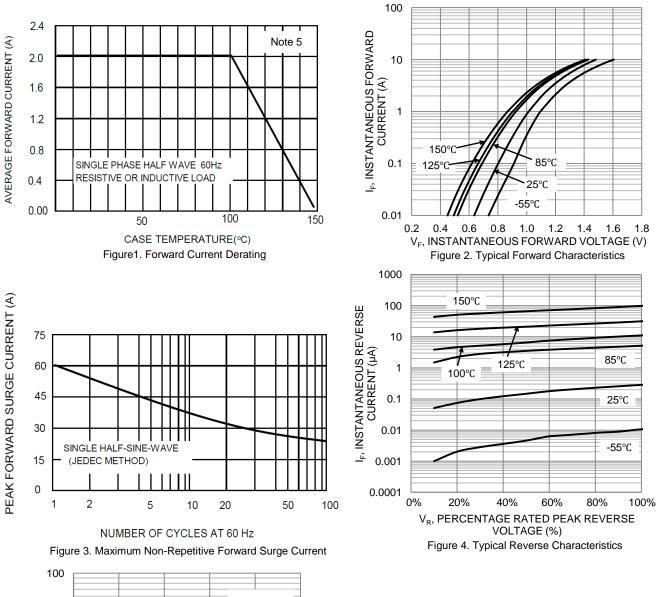
Notes: 5. Device mounted on aluminum substrate PC board with 1.3mm² solder pad.

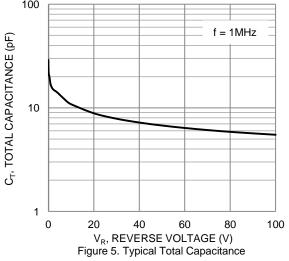
6. Reverse Recovery Test Conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 7. Short duration pulse test used to minimize self-heating effect. 8. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.



NEW PRODUCT

RABF22-RABF210



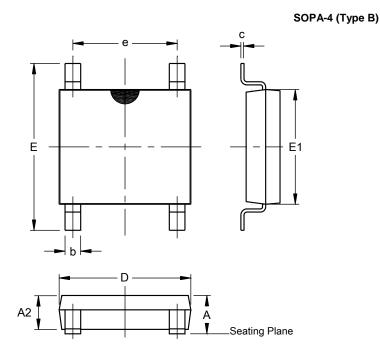


RABF22-RABF210 Document number: DS39836 Rev. 2 - 2



Package Outline Dimensions

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

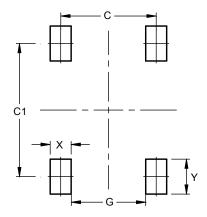


SOPA-4 (Type B)						
Dim	Min	Max	Тур			
Α	1.15	1.30				
A2	1.00	1.25				
b	0.50	0.70				
С	0.15	0.25				
D	4.80	5.30				
Е	6.00	6.80				
E1	4.20	4.60				
е	3.80	4.20				
All	All Dimensions in mm					

Suggested Pad Layout

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

SOPA-4 (Type B)



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

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