

# Technical Support Record

Question or Problem

*Program* TINA

*Category* Usage

*Title* simulation result

*Question/Problem* I got it to work in CrossOver, as shown in the uploaded image file. But I don't have any confidence in your Multimeter. Can you see why? In this inefficient circuit for a "full wave rectifier" it finds a node with 38.8V AC.  
Can you fix this?

*Answer/Solution* Could you please send the TSC file as well?

Regards  
Tibor Horvath

*Additional file(s)* [2024\\_Jul\\_18\\_Tina\\_files.zip](#)  
[2024\\_Jul\\_18\\_20240717\\_prec\\_rectb.tsc](#)  
-rw-r--r-- 1 dsg4t0r dsg4t0r 197586 Jul 17 15:32  
tsattachments/240717963D/2024\_Jul\_17\_Screenshot\_20240717\_at\_3.28.05 PM.png

Note

*Sender* Don Baker

*Date* 2024-07-18 17:55:56

*Message* I tried uploading the TSC file here, twice. Your page stops and doesn't come back here to where I can click the SEND button. If I click SEND first, it asks me to Upload first. So I hope you got it, and my comment.

Note

*Sender* Don Baker

*Date* 2024-07-18 18:13:35

*Message* I'm having trouble with the buttons on your web pages not working. When I Upload a file, it sends me to a page with no exit or return, so that I can't SEND the comment.

Note

*Sender* Tibor Horvath

*Date* 2024-07-18 18:16:30

*Message* I've received the TSC file, thank you. This is a nonlinear rectifier circuit, so you must simulate it in transient mode (oscilloscope) to get the correct result. The AC simulation - this is what the multimeter does - is linear, so you can't get a correct result with it.

New Note

SEND

*Sender* Don Baker

*Message*

And that does not explain why a rectifier circuit with a low-pass filter, having a DC output with a very small ripple voltage should measure a DC voltage on the order of 500 mVDC should show as less than E-15 volt on your multimeter. Much less indicate an AC voltage of over 30 VAC in a circuit which has a source voltage of no more than 1 Vpp AC and a gain of no more than 2. I'll count that money as a waste and suggest to Texas Instruments that they should offer better software.

Attach file  
(max  
2.00MB)

Choose File no file selected

Upload

Print... Close