
Subject: PSUD/switchercad

Posted by [Manualblock](#) on Tue, 01 Feb 2005 21:25:30 GMT

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Hi Douglas; Downloaded and ran PSUD today on Guenievre. Now I understand. Of course the secondary must be modeled unloaded, that is what it is telling us. Fully loaded would prevent the simulation from functioning. It's like looking on Mapquest to find out how to get where you already are. I modeled the PS and it ran beautifully; with nice traces. I am not sure of the source resistance of the Trans though so I used the 30ohm default setting.ESR I know what it is but what effect it might have on the circuit escapes me. I know it has more effect at high current on the high freq. but you said you really didn't notice much difference. Is there a point we need to be concerned with this? Do you think Switchercad is a usefull tool for the novice?Thanks again glad I got straight on this.

Subject: Re: PSUD/switchercad

Posted by [PakProtector](#) on Wed, 02 Feb 2005 00:17:20 GMT

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Hey-Hey!!!,I have no experience with Switchercad. It took me long enough with PSUD to discover how to find where the vacuum diodes were and how to use them.regards,Douglas

Subject: Re: PSUD/switchercad

Posted by [Manualblock](#) on Wed, 02 Feb 2005 01:23:15 GMT

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Sorry; I thought you could upload different tubes into the database? Also is the 30ohm source impedance accurate with our transformer? Thanks J.R.

Subject: Re: PSUD/switchercad

Posted by [PakProtector](#) on Wed, 02 Feb 2005 01:37:19 GMT

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Hey-Hey!!!,The 30 Ohms is close enough. I did not ask about DCR, but assume it will be reasonable.The current delivery is to a choke input filter. There are no large spikes of current being drawn to show up as voltage drop across a resistor. Figure 50 mA and see how much changing the resistance from 15R to 60R does for $I \cdot R$ voltage. It is fairly small.regards,Douglasalmost done with the linestage construction...

Subject: Re: PSUD/switchercad
Posted by [Manualblock](#) on Wed, 02 Feb 2005 02:15:32 GMT
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Thats the stuff; I can get right on it. I modeled it today with a C-L-C . Whats the chance we can see your version of the PS?
