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Subject: Re: Thanks- question about D1 current  
Posted by [Damir](#) on Mon, 30 Jan 2006 12:43:21 GMT  
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Basically, C-input PS has a disadvantage that charging current "on the capacitor" is in the form of sharp peaks, with peak value many times the load current. This current flows through D1 & T1, you can see it graphically if you look on the little time segment, for example see the link. Choke input filter has much better "behaviour", it "draws" more or less constant current. Our example (small, 1,5 $\mu$ F cap input) is something in between, "almost" L-input, with small charging current peaks. To be on the safe side, and have some "room" for experiments - use the 275-0-275V PT with 160mA rms current capacity. For "pure" L-input  $I_{tr} \sim I_{load}$ .  
<http://audioundtable.com/GroupBuild/messages/1314.html>

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