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Subject: Damper diodes

Posted by [PakProtector](#) on Mon, 27 Dec 2004 02:27:38 GMT

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Hey-Hey!!!,Part of the restriction we are designing to is expense. The filament requirements of a full bridge worth of damper diodes is ~4A of 6.3 at a minimum. For the 6AU4 it is more like 7A. The hybrid bridge using a 6CA4 and two 1N4007-style SS diodes gives vacuum tube performance w/o big expensive filament TX's. The 6CA4 is one tough little valve too. If we look at the size of the filter capacitance the valve can stand working into, it is right up there with a 5U4 and 5AR4/GZ34, these rectifier tubes are all good for a meduim sized stereo amp, let alone a linestage... For a twin diode rectifier tube there are many options at the 2A/6.3 volt limit imposed by selection of the 261G6 Hammond. 6BY5 is an octal dual diode. On the smaller side, 6X5 is an octal version of the 7-pin 6X4. 6BW4 is another, lying about in the middle between 6CA4 and 6X5 capabilities.It is a bit of a challenge to make something small, light and simple after becomming used to very overbuilt and complex-as-desired circuitry. regards,Douglas

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