

## Re: 250mA voltage clamp

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-12/msg01453.html>

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- *From:* [the.other.Jim@xxxxxxxxxxxxx](mailto:the.other.Jim@xxxxxxxxxxxxx)
  - *Date:* Mon, 12 Dec 2005 03:24:21 GMT
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On Sun, 11 Dec 2005 13:40:32 -0800, "Walter Harley"

<walterh@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

>

>And in answer to Jim's question: it takes about 300mA draw for the internal  
>impedance of the supply to drop the voltage sufficiently. I'd rather avoid  
>a shunt regulator if I can, so as to avoid unnecessary heating. The  
>max-load condition is unusual and is expected (though not guaranteed) to  
>last only a short time; 99% of the time the load is expected to be only 30mA  
>or so.

>

OK, a DC-DC converter, buck/boost type between your source and load would solve all your problems at 80% efficiency. And be much easier to implement than some op-amp and pass element scheme.

Jim

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- *Follow-Ups:*

- ◆ [Re: 250mA voltage clamp](#)  
◇ *From:* budgie

- *References:*

- ◆ [250mA voltage clamp](#)  
◇ *From:* Walter Harley
- ◆ [Re: 250mA voltage clamp](#)  
◇ *From:* the . other . Jim
- ◆ [Re: 250mA voltage clamp](#)  
◇ *From:* Fred Bloggs
- ◆ [Re: 250mA voltage clamp](#)  
◇ *From:* Walter Harley

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