

## Re: Need "constant voltage-drop device"

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- *From:* [cbarn24050@xxxxxxxx](mailto:cbarn24050@xxxxxxxx)
  - *Date:* 21 Feb 2006 18:38:05 -0800
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jwallacq@xxxxxxxxxxxxx wrote:

Is there any kind of 2-terminal device, circuit, or "black box" commercially available that will automatically maintain a constant voltage drop between a DC power source and its Load over a very wide range of supply voltages and load resistances??

For my application, I would need something that maintains a voltage drop of, say, 100 volts while the power supply output fluctuates from about 150 volts to 1000 volts, and the load current varies from 1 amp to 20 amps --- sort of a "super-zener-diode."

Actually, a 100 volt, 20 amp zener diode would be ideal, but as far as I know, there ain't no such animal.

Suggestions, anyone? TIA, john w.

power transistor with a reversed zener in the emitter lead, resistor from collector to base, resistor from base to anode of diode. Collector and emitter are your 2 terminals.