

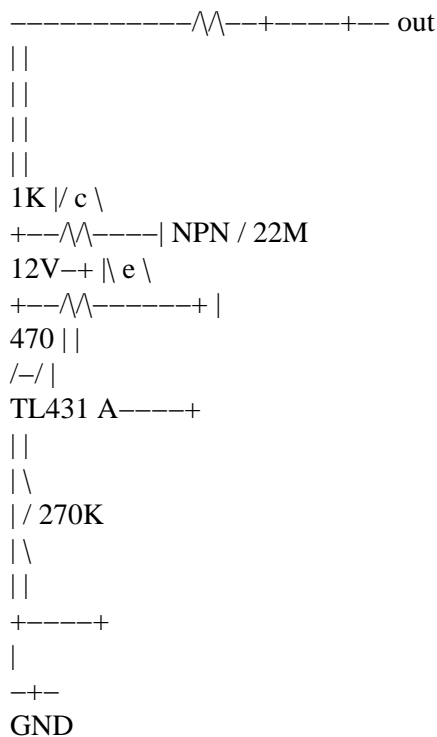
Re: High Voltage leaky diode (or any diode like device)

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- *From:* Fred Bloggs <nospam@xxxxxxxxxxx>
 - *Date:* Sat, 29 Mar 2008 21:15:35 -0400
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ferdimh@xxxxxx wrote:

Why don't you consider replacing the Zener?
I'd use a TL431 in a cascode configuration:
32K



The low-voltage supply could be varied between 4 and 36V volts.
The main leak is caused by the 22M resistor. and about 100µA at 200V.
If a BF459 is used, its leak would be max. 5µA at 150 °C junction temperature. So total error is going to be below 3.5 volts. if that isn't accurate enough, an emitter follower could be used to drive the divider. But a circuit needing higher accuracy is not a good design anyway.

Re: High Voltage leaky diode (or any diode like device)

The BF459 is obsolete...and $200V/22M=9\mu A$

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