

Re: Detecting currents less than one femtoamp?

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From: Winfield Hill (Winfield_member_at_newsguy.com)

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Boris Mohar wrote...

>

> *He said LESS than 1fA. 10^{-16} is 100 attoamperes*

>

> *It is doable with discrete front end of I/V op amp*

> *configuration. I used 3N155.*

Tell us about your observed current offset and drifts.

(The 3n155 p-channel MOSFET is spec'd at 10pA maximum gate leakage, for $V_{gs} = -25V$ forward, admittedly a rather silly and basically useless spec.)

Also, did you use any input protection circuitry?

What was the size of your feedback/sense resistor?

Where did you get it?

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Thanks,

- Win

(email: use hill_at_rowland-dotties-org for now)