

Re: Detecting currents less than one femtoamp?

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On Sun, 10 Oct 2004 01:44:06 -0700, "Watson A.Name - \"Watt Sun, the Dark Remover\"" <NOSPAM@dslextre.me.com> wrote:

>
> "Greysky" <greyskynospam@sbcglobal.net> wrote in message
> news:hjt8d.6675\$nj.2550@newssvr13.news.prodigy.com...
>> Anyone know of a reliable way of detecting currents less than one
> femtoamp
>> i.e. 1×10^{-16} amp full-scale? I figure to perhaps use some
> instrumentation
>
> Let's see..
> $1 \text{ mA} = 10^{-3}$
> $1 \text{ uA} = 10^{-6}$
> $1 \text{ nA} = 10^{-9}$
> $1 \text{ pA} = 10^{-12}$
> $1 \text{ fA} = 10^{-15}$ _not_ 10^{-16} !
>

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

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Boris Mohar