

# Re: Transimpedance Amplifier – Photodiode Receiver Circuit

*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.basics/2006-10/msg00802.html>

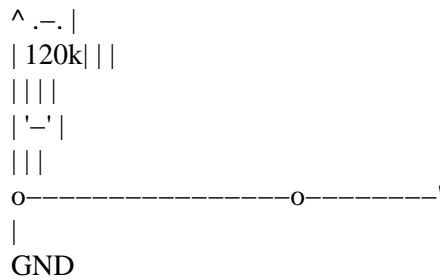
- *From:* "Chris" <[cfoley1064@xxxxxxxxxx](mailto:cfoley1064@xxxxxxxxxx)>
- *Date:* 16 Oct 2006 08:35:51 -0700

generous.boy@xxxxxxxxxx wrote:

Hi all,  
Need help with component choice!  
Trying to build a photodiode receiving circuit. Came up with the circuit below after reading a few things and scavenging some circuit designs.  
please refer link for circuit schematic  
<http://generous.boy.googlepages.com/photodiode-receiving-circuit>

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photodiode - |||
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## Re: Transimpedance Amplifier – Photodiode Receiver Circuit



(created by AACircuit v1.28.6 beta 04/19/05 www.tech-chat.de)

The op-amp converts the current signal to a voltage signal.

The circuit worked fine with an AD817AN as the amplifier. But the AD817AN is too expensive, \$13. I tried just plugging in a few other amplifiers that were around.. None give me a clean output.

The photodiode(BP104) is receiving pulses (square wave with "on" time of 10us and varying "off" times)  
the frequency of the incident pulses can vary