

Photo Diode as current source

Student Group

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Table of Contents

Photo Diode as current source 2

Photo Diode as current source

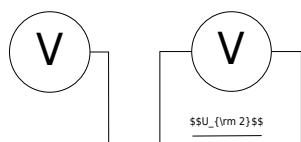


Fig. 1: Inverting Op-Amp: Photo Diode as current source

$$U_{DD} \approx 10\text{V}, U_{SS} \approx -10\text{V}, R_1 \approx 10\text{k}\Omega$$

Use the values from figure ## for U_{IN}, U_{OUT}, R_2 .

Complete the arrows in the schematic of the circuit.

Take the values for U_1, U_2, U_{OUT} from figure ##.

Use these values to calculate the sum of the voltages at node N_{12} .

Compare your result by measurement.

$$U_1 \approx$$

$$U_2 \approx$$

$$U_{OUT} \approx$$

$$\text{Calculated } U_{12} \approx$$

$$\text{Measured } U_{12} \approx$$

What are your results?

$\{\rm \dots\}$

$\{\rm \dots\}$

$\{\rm \dots\}$

What will happen if you short-circuit R_2 ?

Try it and explain your results.

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