

Photodiode as current source

Student Group

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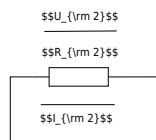


Fig. 4: Inverting Op-Amp: Photo Diode as current source

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

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.

$$U_1 \approx$$

$$U_2 \approx$$

$$U_{OUT} \approx$$

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

Measured U_{12}

What are your results?

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What will happen if you short-circuit R_{2} ?
Try it and explain your results.

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Last update: 2026/04/02 13:01

