

Photodiode as current source

Student Group

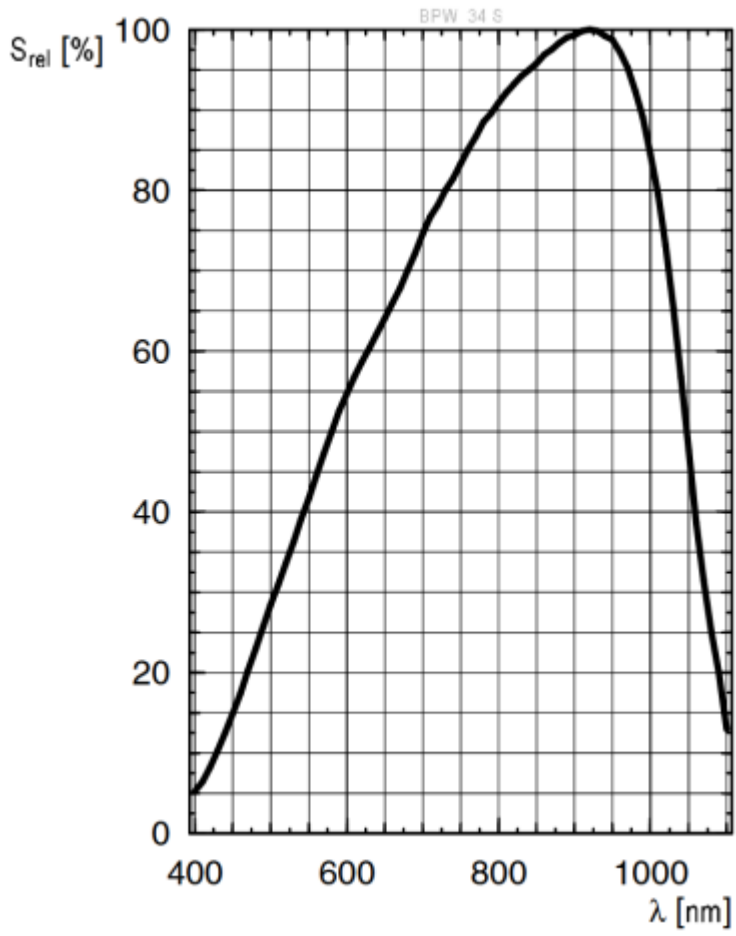
First Name	Surname	Matrikel Nr.

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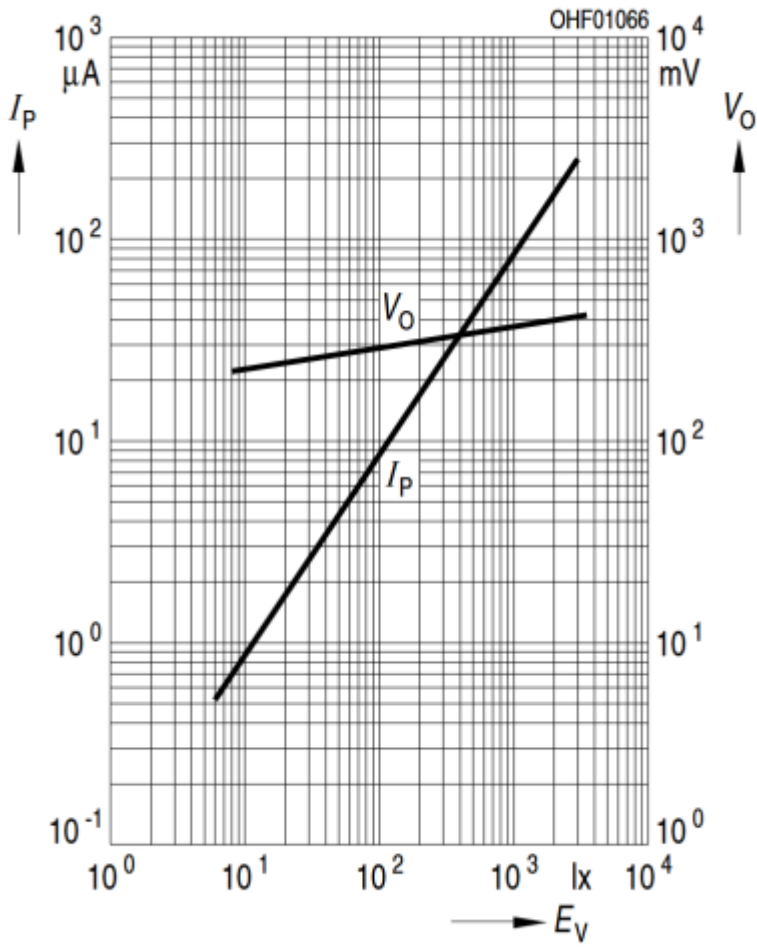
Photo Diode as current source 2
Photo Diode as current source 2

Photo Diode as current source

Photo Diode as current source



$$I_P (V_R = 5 \text{ V}) / V_O = f(E_V)$$



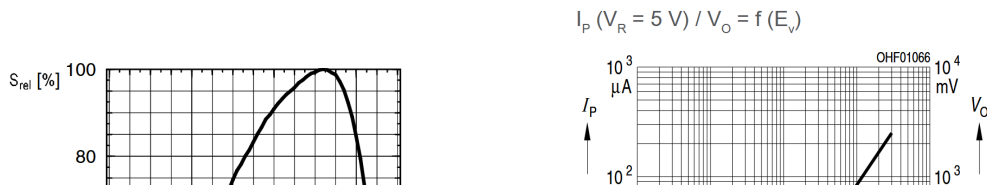


Fig. 2: Inverting Op-Amp: Photo Diode as current source

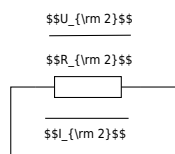


Fig. 3: Inverting Op-Amp: Photo Diode as current source

$U_{DD} \approx 10V, U_{SS} \approx -10V$

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.

$U_1 =$

$U_2 =$

$U_{OUT} =$

Calculated $U_{12} =$

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: **2026/04/14 10:12**

