

# Photodiode as current source

## Student Group

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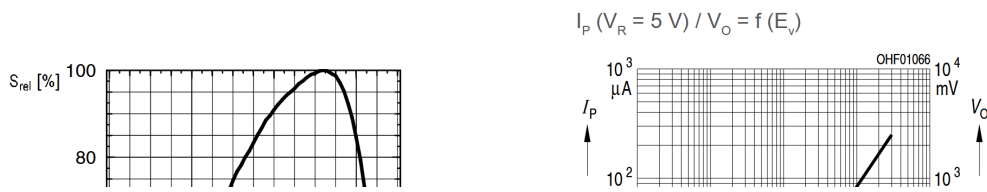


Fig. 2: Inverting Op-Amp: Photo Diode as current source

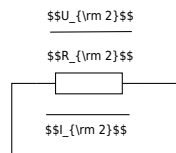


Fig. 3: Inverting Op-Amp: Photo Diode as current source

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

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.

$U_1 \approx$

$U_2 \approx$

$U_{OUT} \approx$

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

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

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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