Photodiode as current source

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

Photo Diode as current source 2

Photo Diode as current source

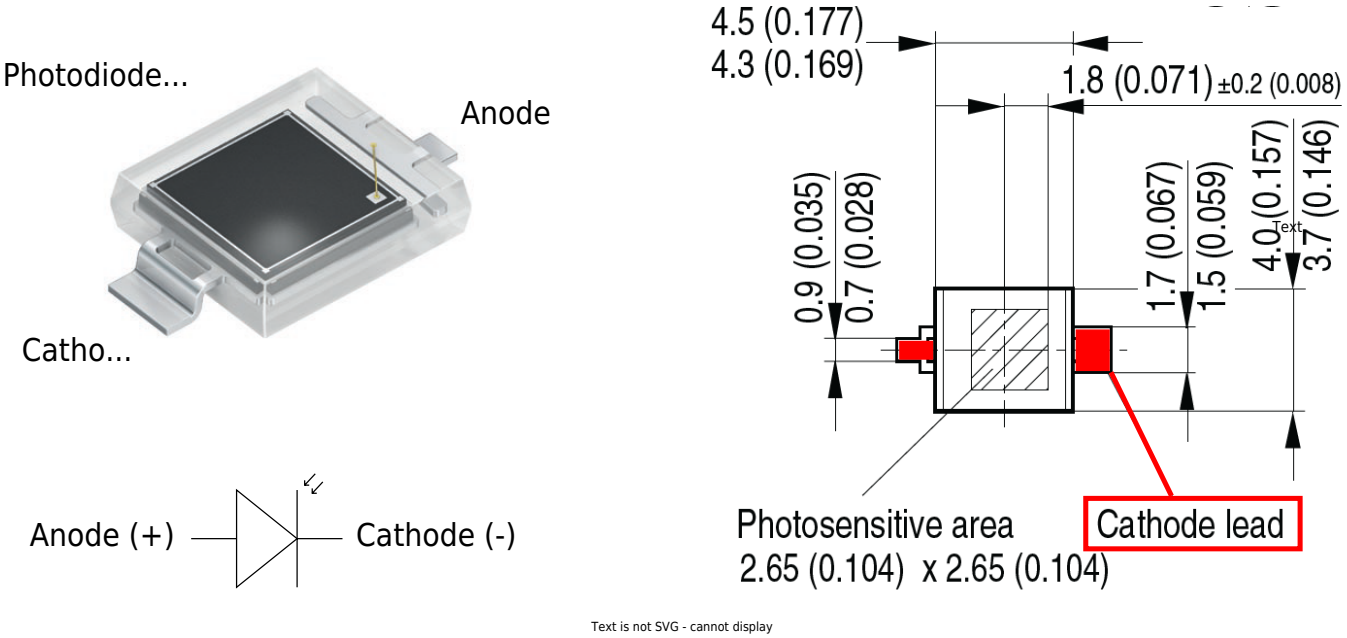

Fig. 2: Inverting Op-Amp: Photo Diode BPW 34 S

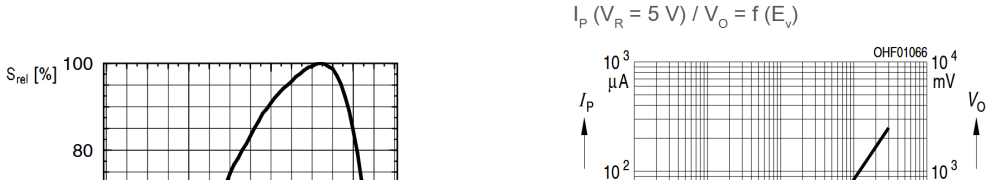

Fig. 3: Inverting Op-Amp: Diagramms of BPW 34 S

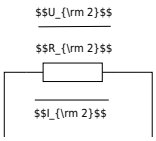

Fig. 4: Inverting Op-Amp: Photo Diode as current source

$U_{\rm DD}{\rm~=10~V},~U_{\rm SS}{\rm~=-10~V}$

Complete the arrows in the scematic of the circuit.
Take the values for $U_{\rm 1},~U_{\rm 2},~U_{\rm OUT}$ from figure ##.
Use these values to calculate the sum of the voltages at node ${\rm N_{12}}$.
Compare your result by measuerement.

$U_{\rm 1}{\rm~=}$

$U_{\rm 2}{\rm~=}$

$U_{\rm OUT}{\rm~=}$

Calculated $U_{\rm 12}{\rm~=}$

Measured $U_{\rm 12}{\rm~=}$

What are your results?

${\rm .....}$

${\rm .....}$

${\rm .....}$

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

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

${\rm .....}$

From:
https://wiki.mexle.org/ - **MEXLE Wiki**

Permanent link:
https://wiki.mexle.org/lab05_en/inverting_op-amp_photo_diode_as_current_source?rev=1776418417

Last update: **2026/04/17 11:33**