



NOTES:

D_{PD} = IDEAL PHOTODIODE.

I_{SC} = CURRENT GENERATED BY LIGHT.

C_{PD} = DEVICE CAPACITANCE.

R_{PD} = DEVICE PARALLEL RESISTANCE.

C_F = FEEDBACK CAPACITOR.

R_F = FEEDBACK RESISTOR.

C_{RF} = FEEDBACK-RESISTOR PARASITIC CAPACITANCE.

C_{CM} = COMMON-MODE-AMPLIFIER CAPACITANCE.

C_{DIFF} = DIFFERENTIAL-AMPLIFIER CAPACITANCE.

$A_{OL}(j\omega)$ = AMPLIFIER OPEN-LOOP GAIN.

Figure 1 This transimpedance photo-sensing circuit comprises a photodiode, an operational amplifier, and a feedback network.