



TO-8 Photocells

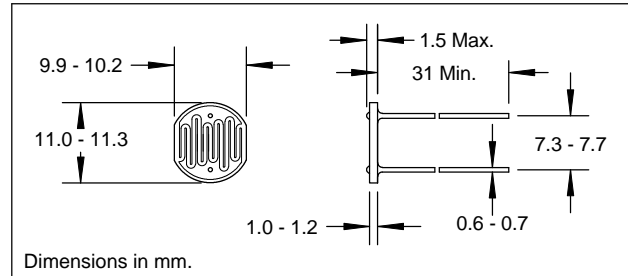
Ceramic Package

Features

- Three photoconductive materials
- Tolerance: $\pm 40\%$ @ 1 ftc, $\pm 33\%$ @ 2 ftc

Description

The Silonex TO-8 series of photoconductive cells provide up to eight standard resistance ranges in CdS or CdSe materials. Most of these devices are also available in a hermetic package.



Absolute Maximum Ratings

Operating & Storage Temperature -60°C to $+75^{\circ}\text{C}$
 Power Dissipation @ 25°C (1) 250 mW

Electrical Characteristics ($T_A=25^{\circ}\text{C}$, source at 2854 K)

| Silonex Part No | Sensitive Material | Spectral Peak (nm) | R @ 1 ftc (Kohms) (3) | R @ 2 ftc (Kohms) (3) | R _{TYP} @ 100 ftc (ohms) | Min. R _{DARK} (Kohms) (2) | V _{MAX} (Volts) (peak AC or DC) |
|-----------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------------------|------------------------------------|--|
| NSL-4912 | Type 4 CdS | 515 | 9.3 | | 150 | 560 | 80 |
| NSL-4922 | | | 4.0 | | 80 | 250 | 80 |
| NSL-4932 | | | 1.7 | | 50 | 100 | 80 |
| NSL-4942 | | | 0.725 | | 30 | 50 | 80 |
| NSL-4952 | | | 40 | | 860 | 2400 | 320 |
| NSL-4962 | | | 17 | | 500 | 1000 | 320 |
| NSL-4972 | | | 7.25 | | 260 | 400 | 320 |
| NSL-4982 | | | 114 | | 2500 | 6800 | 320 |
| NSL-5912 | Type 5 CdS | 550 | | 1.5 | 150 | 100 | 170 |
| NSL-5922 | | | | 3.0 | 300 | 200 | 170 |
| NSL-5932 | | | | 6.0 | 500 | 400 | 250 |
| NSL-5942 | | | | 9.0 | 700 | 600 | 250 |
| NSL-6922 | Type 6 CdSe | 690 | | 0.510 | 50 | 300 | 170 |
| NSL-6952 | | | | 2.7 | 200 | 720 | 170 |

Specifications subject to change without notice.

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- Notes: (1) derate linearly to zero at 75°C .
 (2) 5 sec. after removal of test light.
 (3) cells light adapted at 30 to 50 ftc for 16 hrs minimum prior to electrical tests.

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