



TO-5 Photocells

Plastic Encapsulated

Features

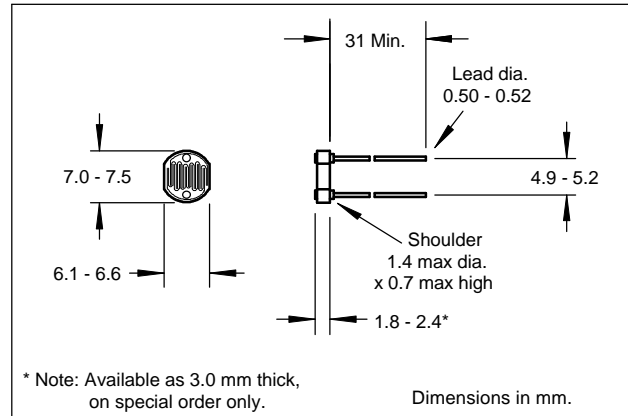
- Five Photoconductive Materials
- Tolerance: $\pm 40\%$ @ 1 ftc, $\pm 33\%$ @ 2 ftc

Description

The Silonex TO-5 series of photocells provide up to seven 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) 125 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} (Mohms) (2) | V _{MAX} (Volts) (peak AC or DC) |
|-----------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------------------|------------------------------------|--|
| NSL-4512 | Type 4 CdS | 515 | 43 | | 1,000 | 2.5 | 120 |
| NSL-4522 | | | 18.6 | | 400 | 1.0 | 120 |
| NSL-4532 | | | 8.0 | | 230 | 0.40 | 120 |
| NSL-4542 | | | 3.5 | | 120 | 0.10 | 120 |
| NSL-4552 | | | 330 | | 8,000 | 20.0 | 320 |
| NSL-4562 | | | 155 | | 4,600 | 10.0 | 320 |
| NSL-4572 | | | 65 | | 3,800 | 4.0 | 320 |
| NSL-5512 | Type 5 CdS | 550 | | 3.3 | 300 | 0.22 | 120 |
| NSL-5522 | | | | 10 | 700 | 0.67 | 120 |
| NSL-5532 | | | | 165 | 10,000 | 11.0 | 320 |
| NSL-5542 | | | | 30 | 1,000 | 20.0 | 120 |
| NSL-5552 | | | | 30 (4) | 1,000 | 10.0 | 120 |
| NSL-5562 | | | | 37.5 (5) | 1,200 | 10.0 | 120 |
| NSL-5572 | | | | 47.5 (6) | 2,000 | 1.0 | 120 |
| NSL-6512 | Type 6 CdSe | 690 | | 0.60 | 50 | 0.40 | 120 |
| NSL-6522 | | | | 1.2 | 100 | 0.80 | 120 |
| NSL-6532 | | | | 30 | 2,000 | 20.0 | 320 |
| NSL-7512 | Type 7 CdS | 615 | | 2.7 | 250 | 0.45 | 120 |
| NSL-7522 | | | | 5.4 | 500 | 0.90 | 120 |
| NSL-7532 | | | | 10 | 500 | 6.7 | 120 |
| NSL-7542 | | | | 100 | 5,000 | 67.0 | 250 |
| NSL-7552 | | | | 600 | 20,000 | 400.0 | 320 |

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.

(4) $\pm 50\%$

(5) $\pm 60\%$

(6) $\pm 70\%$

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