



TO-5 Photocells

Hermetic Package

Features

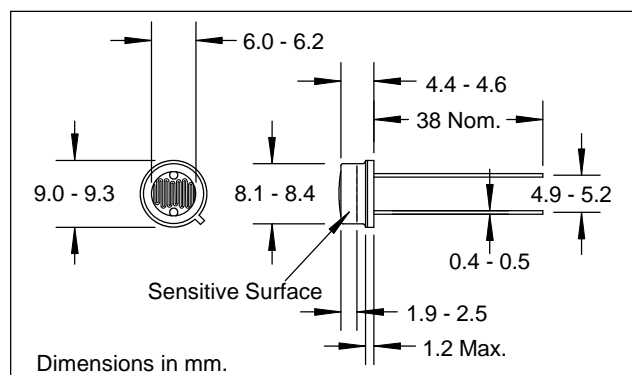
- Six Photoconductive Materials
- Tolerance: $\pm 40\%$ @ 1 ftc, $\pm 33\%$ @ 2 ftc

Description

The Silonex TO-5 series of photocells provide up to seven standard resistance ranges in CdS or CdSe materials.

Absolute Maximum Ratings

Operating & Storage Temperature -60°C to $+75^{\circ}\text{C}$
Power Dissipation @ 25°C (1) 200 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-3510 | Type 3 CdSe | 725 | | 2.7 | 200 | 18 | 120 |
| NSL-3520 | | | | 5.4 | 300 | 36 | 120 |
| NSL-3530 | | | | 66 | 5,000 | 440 | 320 |
| NSL-3540 | | | | 132 | 10,000 | 880 | 320 |
| NSL-4510 | Type 4 CdS | 515 | 43 | | 1,000 | 2.5 | 120 |
| NSL-4520 | | | 18.6 | | 400 | 1.0 | 120 |
| NSL-4530 | | | 8.0 | | 230 | 0.40 | 120 |
| NSL-4540 | | | 3.5 | | 120 | 0.10 | 120 |
| NSL-4550 | | | 330 | | 8,000 | 20 | 320 |
| NSL-4560 | | | 155 | | 4,600 | 10 | 320 |
| NSL-4570 | | | 65 | | 3,800 | 4.0 | 320 |
| NSL-5510 | Type 5 CdS | 550 | | 3.3 | 300 | 0.22 | 120 |
| NSL-5520 | | | | 10 | 700 | 0.67 | 120 |
| NSL-5530 | | | | 165 | 10,000 | 11 | 320 |
| NSL-5540 | | | | 30 | 1,000 | 20 | 120 |
| NSL-6510 | Type 6 CdSe | 690 | | 0.60 | 50 | 0.40 | 120 |
| NSL-6520 | | | | 1.2 | 100 | 0.80 | 120 |
| NSL-6530 | | | | 30 | 2,000 | 20 | 320 |
| NSL-7510 | Type 7 CdS | 615 | | 2.7 | 250 | 0.45 | 120 |
| NSL-7520 | | | | 5.4 | 500 | 0.90 | 120 |
| NSL-7530 | | | | 10 | 500 | 6.7 | 120 |
| NSL-7540 | | | | 100 | 5,000 | 67 | 250 |
| NSL-7550 | | | | 600 | 20,000 | 400 | 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.

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