



# TO-5 Photocells

Hermetic Package

## Features

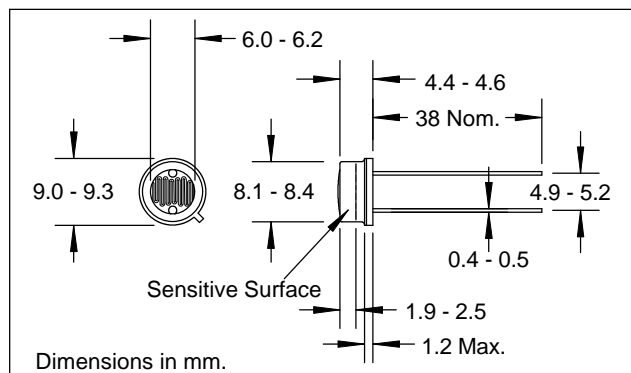
- Six Photoconductive Materials
- Tolerance:  $\pm 40\%$  @ 1 ftc,  $\pm 33\%$  @ 2 ftc

## 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  $-60^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$   
 Power Dissipation @  $25^{\circ}\text{C}$  (1) 200 mW



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

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  $75^{\circ}\text{C}$ .

(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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