



# TO-5 Photocells

Plastic Encapsulated

## Features

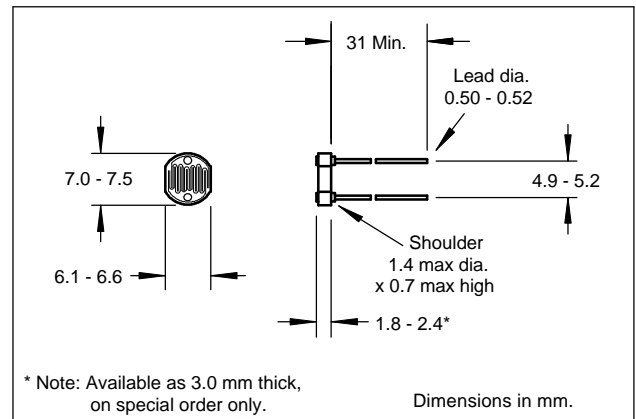
- Five Photoconductive Materials
- Tolerance:  $\pm 40\%$  @ 1 ftc,  $\pm 33\%$  @ 2 ftc

## 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     $-60^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$   
 Power Dissipation @  $25^{\circ}\text{C}$  (1)                      125 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 <sub>TYP</sub> @ 100 ftc (ohms)	Min. R <sub>DARK</sub> (Mohms) (2)	V <sub>MAX</sub> (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.

103259 REV 2

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.

(4)  $\pm 50\%$

(5)  $\pm 60\%$

(6)  $\pm 70\%$

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