



# TO-18 Photocells

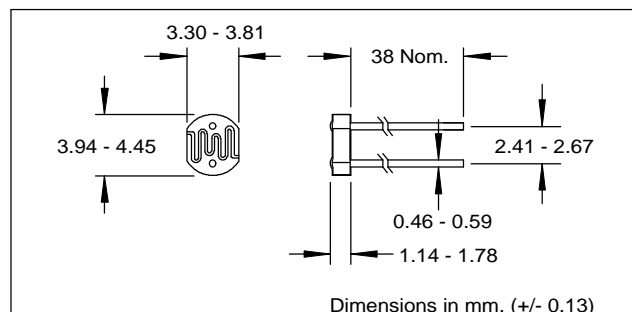
Ceramic Substrate

## Features

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

## Description

The Silonex TO-18 series of photoconductive cells provide up to seven standard resistance ranges in CdS or CdSe materials. These photocells are ceramic based with a moisture resistant plastic encapsulation. 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)                      50 mW

- Notes: (1) derate linearly to 0 at  $75^{\circ}\text{C}$   
 (2) cells to be light adapted at 30 to 50 Ftc for 16 hrs minimum prior to electrical tests  
 (3) 5 sec. after removal of test light.

## 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)(2)	R @ 2 ftc (Kohms)(2)	$R_{Typ}$ @ 100 ftc (ohms)	Min. $R_{Dark}$ (Mohms) (3)	Voltage Rating (peak AC or DC)(V)
NSL-4122	Type 4 CdS	515	75		1,300	4.5	80
NSL-4132			30		500	1.8	80
NSL-4142			14		250	0.8	80
NSL-4152			550		9,000	33	320
NSL-4162			260		4,000	15.6	320
NSL-4172			110		1,700	6.6	320
NSL-4182			50		900	3.0	160
NSL-5112	Type 5 CdS	550		10	700	0.67	100
NSL-5122				20	1,500	1.3	100
NSL-5152				15	400	5	60
NSL-5162				100	3,000	67	100
NSL-6112	Type 6 CdSe	690		2	170	1.3	100
NSL-7142	Type 7 CdS	615		4.5	250	3	60
NSL-7152				24	1,000	16	100

Specifications subject to change without notice

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