

T0-8 PHOTOCONDUCTIVE CELLS

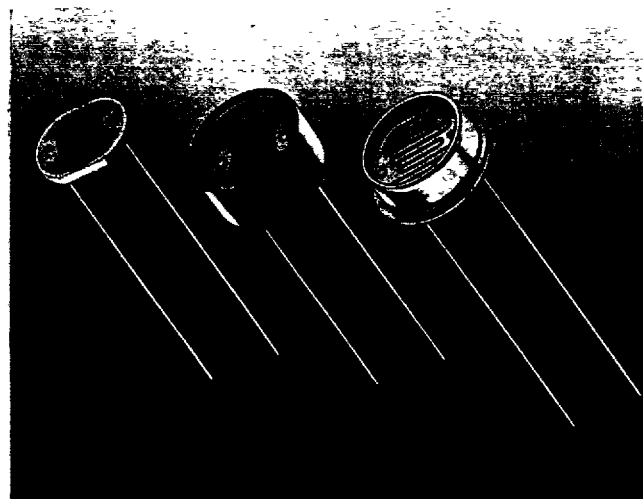
T-41-41

FEATURES

- Five Photoconductive Materials
- Power Dissipation @ 25°C
500 mW – Hermetically Sealed
250 mW – Plastic Encapsulated
- Resistance Tolerance: $\pm 40\%$ @ 1 ftc
 $\pm 33\frac{1}{3}\%$ @ 2 ftc
- Temperature Range:
-60°C to +75°C

GENERAL DESCRIPTION

The Silonex T0-8 series of photoconductive cells provide up to five standard resistance ranges in CdS or CdSe materials. Two standard mechanical configurations are available; a hermetically sealed package, and a moisture resistant plastic encapsulated version.



HERMETIC PACKAGE

SILONEX PART NO	SENSITIVE MATERIAL	PEAK SPECTRAL RESPONSE (nm)	RESISTANCE @ 1 ftc (ohms)	RESISTANCE @ 2 ftc (ohms)	TYPICAL RESISTANCE @ 100 ftc (ohms)	MIN. DARK RESISTANCE 5 SEC. AFTER 2 ftc (ohms)	MAXIMUM VOLTAGE RATING (PEAK AC or DC)
NSL-4910 NSL-4920 NSL-4930 NSL-4940 NSL-4950 NSL-4960 NSL-4970 NSL-4980	Type 4 CdS	515	9.3K 4.0K 1.7K .725K 40K 17K 7.25K 114K		150 80 50 30 860 500 260 2.5K	5.0 Meg 3.2 Meg 400 K 50 K 32 Meg 4.0 Meg 540 K 100 Meg	80 80 80 80 320 320 320 320
NSL-5910 NSL-5920 NSL-5930 NSL-5940	Type 5 CdS	550		1.5K 3.0K 6.0K 9.0K	150 300 500 700	100 K 200 K 400 K 600 K	170 170 250 250
NSL-6910 NSL-6920 NSL-6930 NSL-6940	Type 6 CdSe	690		250 510 1.02K 1.5K	25 50 100 150	67 K 300 K 680 K 1.0 Meg	170 170 170 250
NSL-7910	Type 7 CdS	615		7.5K	800	1.5 Meg	250
NSL-9910	Type 9 CdS	550		11K	350	7.3 Meg	170

TO-8 PHOTOCONDUCTIVE CELLS

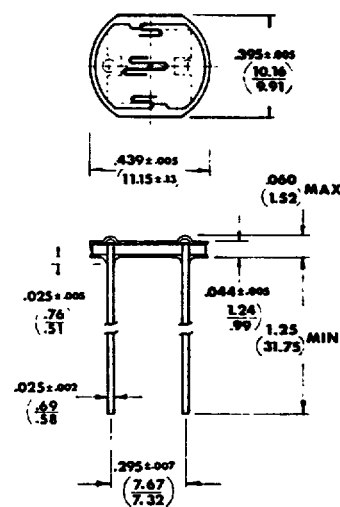
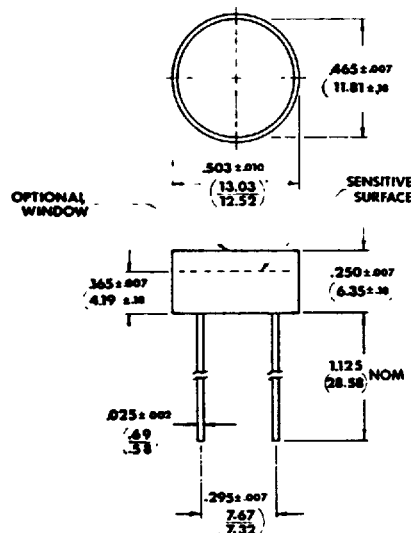
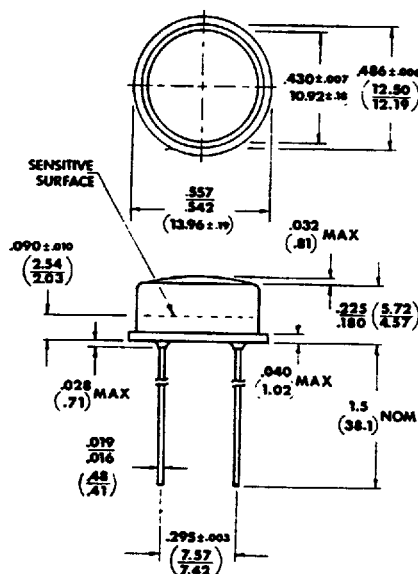
PLASTIC ENCAPSULATED

SILONEX PART NO	SENSITIVE MATERIAL	PEAK SPECTRAL RESPONSE (nm)	RESISTANCE @ 1 ftc (ohms)	RESISTANCE @ 2 ftc (ohms)	TYPICAL RESISTANCE @ 100 ftc (ohms)	MIN. DARK RESISTANCE 5 SEC. AFTER 2 ftc (ohms)	MAXIMUM VOLTAGE RATING (PEAK AC or DC)
NSL-4912	Type 4 CdS	515	9.3K		150	5.0 Meg	80
NSL-4922			4.0K		80	3.2 Meg	80
NSL-4932			1.7K		50	400 K	80
NSL-4942			.725K		30	50 K	80
NSL-4952			40K		860	32 Meg	320
NSL-4962			17K		500	4.0 Meg	320
NSL-4972			7.25K		260	540 K	320
NSL-4982			114K		2.5K	100 Meg	320
NSL-5912	Type 5 CdS	550		1.5K	150	100 K	170
NSL-5932				6K	500	400 K	250
NSL-5942				9K	700	600 K	250
NSL-6922	Type 6 CdSe	690		510	50	300 K	170
NSL-6952				2.7K	200	720 K	170
NSL-9912	Type 9 CdS	550		11K	350	7.3 Meg	170

MEASUREMENT DATA: Cells light adapted at 30-50 Ftc for 16 hours minimum prior to test. All measurements conducted at 25°C ambient, 2854°K.

Dark resistances measured 5 seconds after removal of room light (30-50 Ftc). Power derating. Linearly to 75°C

Special Order Only



Part Number Coding

NSL - 4930

Photoconductive Material

TO-8 size

Resistance Range

- 0 - Hermetic package
- 1 - Encapsulated cell in plastic casing
- 2 - Plastic encapsulated cell
- 3 - Encapsulated cell in plastic casing with glass window