

T-41-41

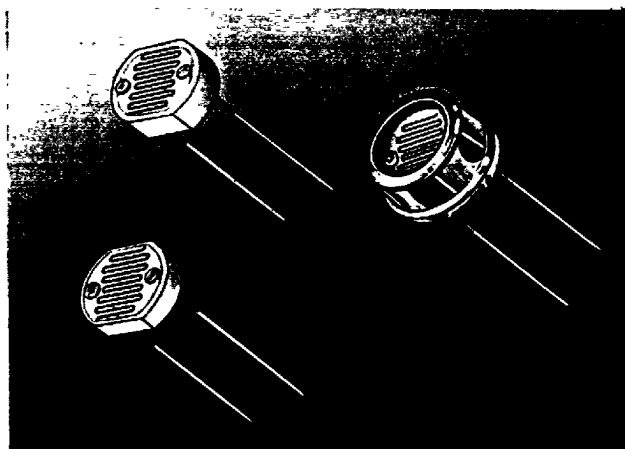
TO-5 PHOTOCONDUCTIVE CELLS

FEATURES

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

GENERAL DESCRIPTION

The Silonex TO-5 series of photoconductive cells provide up to seven 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-3510 NSL-3520 NSL-3530 NSL-3540	Type 3 CdSe	725		2.7K 5.4k 66K 132K	200 300 5K 10K	18Meg 36Meg 440Meg 880Meg	120V 120V 320V 320V
NSL-4510 NSL-4520 NSL-4530 NSL-4540 NSL-4550 NSL-4560 NSL-4570	Type 4 CdS	515	43K 18.6K 8K 3.5K 330K 155K 65K		1.0K 400 230 120 8K 4.6K 3.8K	65Meg 15Meg 1.8Meg 250K 200Meg 130Meg 20Meg	120V 120V 120V 120V 320V 320V 320V
NSL-5510 NSL-5520 NSL-5530 NSL-5540	Type 5 CdS	550		3.3K 10K 165K 30K	300 700 10K 1K	220K 670K 11Meg 20Meg	120V 120V 320V 120V
NSL-6510 NSL-6520 NSL-6530	Type 6 CdSe	690		600 1.2K 30K	50 100 2K	400K 800K 20Meg	120V 120V 320V
NSL-7510 NSL-7520 NSL-7530 NSL-7540 NSL-7550	Type 7 CdS	615		2.7K 5.4K 10K 100K 600K	250 500 500 5K 20K	450K 900K 6.7Meg 67Meg 400Meg	120V 120V 120V 250V 320V
NSL-9510	Type 9 CdS	550		30K	1K	20Meg	120V

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PLASTIC ENCAPSULATED

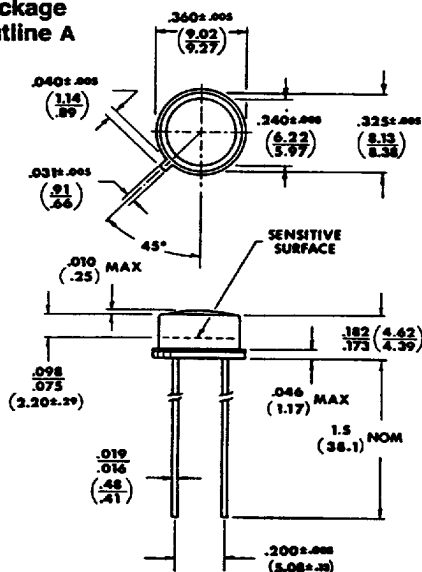
*±50% Δ±60% †±70%

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-4512	Type 4 CdS	515	43K		1000	65Meg	120V
NSL-4522			18.6K		400	15Meg	120V
NSL-4532			8K		230	1.8Meg	120V
NSL-4542			3.5K		120	250K	120V
NSL-4552			330K		8000	200Meg	320V
NSL-4562			155K		4600	130Meg	320V
NSL-4572			65K		3800	20Meg	320V
NSL-5512	Type 5 CdS	550		3.3K	300	220K	120V
NSL-5522				10K	700	670K	120V
NSL-5532				165K	10K	11Meg	320V
NSL-5542				30K	1K	20Meg	120V
NSL-5552				* 30K	1K	10Meg	120V
NSL-5562				Δ 37.5K	1.2K	10Meg	120V
NSL-5572				† 47.5K	2K	1Meg	120V
NSL-6512	Type 6 CdSe	690		600	50	400K	120V
NSL-6522				1.2K	100	800K	120V
NSL-6532				30K	2K	20Meg	320V
NSL-7512	Type 7 CdS	615		2.7K	250	450K	120V
NSL-7522				5.4K	500	900K	120V
NSL-7532				10K	500	6.7Meg	120V
NSL-7542				100K	5K	67Meg	250V
NSL-7552				600K	20K	400Meg	320V
NSL-9512	Type 9 CdS	550		30K	1K	20Meg	120V

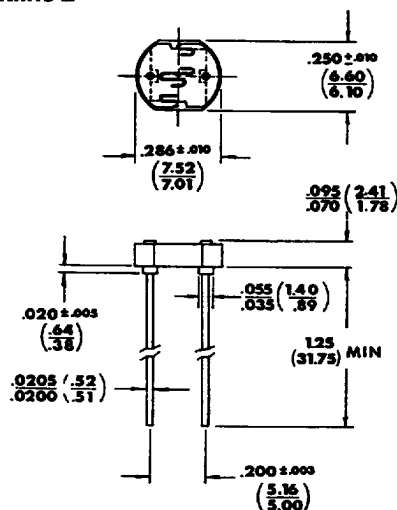
MEASUREMENT DATA: Cells light adapted at 30-50 Ftc for 16 hours minimum prior to test. All measurements conducted at 25°C ambient, 2854°K.

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

Package Outline A



Package Outline B



Package Outline C

Special Order Only

