

T-41-41

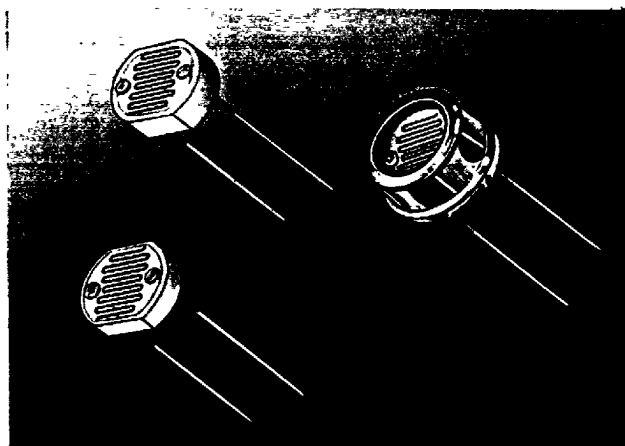
TO-5 PHOTOCONDUCTIVE CELLS

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

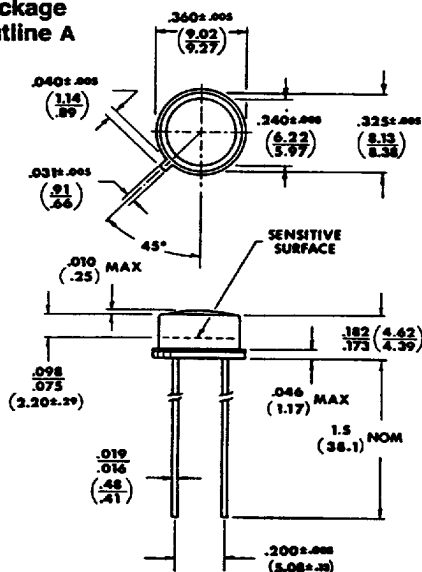
*±50% Δ±60% †±70%

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

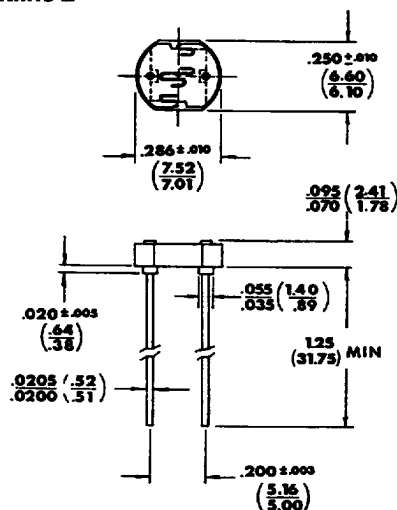
MEASUREMENT DATA: Cells light adapted at 30-50 Ftc for 16 hours minimum prior to test. All measurements conducted at 25°C ambient, 2854°K.

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

