



**FEATURES**

- Passive resistance output
- Hermetic sealed

**DESCRIPTION**

The NSL-6510 is a type 5 CdS photoconductive cell in a flat lens TO-5 hermetic package.

**APPLICATIONS**

- Industrial

**ABSOLUTE MAXIMUM RATING**

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>P</sub>	Voltage (peak AC or DC)		125	V
P <sub>d</sub>	Power Dissipation @ 25°C (1)		200	mW
T <sub>Op</sub>	Operating Temperature	-60	+75	°C
T <sub>Sta</sub>	Storage Temperature	-60	+75	°C
T <sub>S</sub>	Soldering Temperature (2)		+260	°C

**Note:**

- (1) Derate linearly to 0 at 75°C
- (2) >0.08" from case for <5 sec.
- (3) Cells light adapted at 30 to 50 Ftc for 16 hrs minimum prior to electrical tests.
- (4) Print "NSL-6510" and date code "YYWW".

**RELIABILITY**

Contact API for recommendations on specific test conditions and procedures.

**ELECTRO-OPTICAL CHARACTERISTICS**

(TA)= 23°C, UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R <sub>L</sub>	Light Resistance	2 ftc., 2854°K (3)	0.40	0.60	0.80	KΩ
		100 ftc., 2854°K (3)		50		Ω
R <sub>D</sub>	Dark Resistance	5 sec after removal of test light.	1.3			MΩ
λ <sub>P</sub>	Spectral Peak			615		nm

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. © 2014 Advanced Photonix, Inc. All rights reserved.