



**FEATURES**

- Passive resistance output
- Ceramic package

**DESCRIPTION**

The NSL-4512 is a CdS photoconductive cell on a TO-5 ceramic substrate. The photocell is encapsulated with epoxy for moisture resistance.

**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)		120	V
P <sub>d</sub>	Power Dissipation @ 25°C (1)		125	mW
T <sub>Op</sub>	Operating Temperature	-60	+75	°C
T <sub>Stg</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.

**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	1 ftc., 2854°K (3)	25.8	43	60.2	KΩ
		100 ftc., 2854°K (3)		1.0		KΩ
R <sub>D</sub>	Dark Resistance	5 sec after removal of test light.	2.5			MΩ
λ <sub>P</sub>	Spectral Peak			550		nm