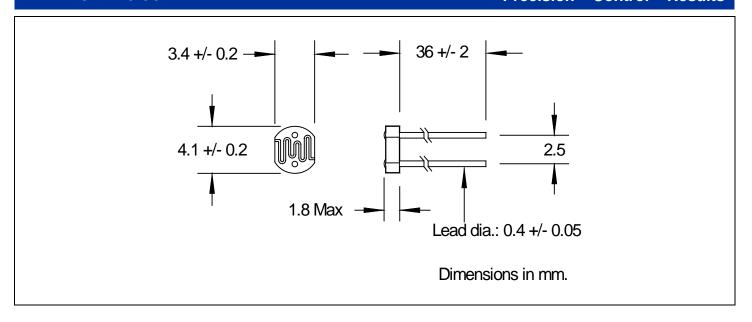


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# **Precision – Control – Results**



#### **DESCRIPTION**

The NSL-5112 is a light dependent resistor with sensitivity in the visible light region. The CdS photoconductive cell is on a TO-18 ceramic and the photocell surface is plastic encapsulated for moisture resistance.

#### **FEATURES**

- Passive resistance output
- Ceramic package
- Lead free

## **RELIABILITY**

Contact Luna for recommendations on specific test conditions and procedures.

## **APPLICATIONS**

Industrial

#### **ABSOLUTE MAXIMUM RATINGS**

SYMBOL	MIN		MAX	UNITS	
Voltage (Peak AC or DC)	-	-	100	V	T <sub>a</sub> = 23°C UNLESS NOTED OTHERWISE
Power Dissipation @ 25°C <sup>1</sup>	-	-	50	mW	-
Operating Temperature	-60	to	+75	°C	-
Storage Temperature	-60	to	+75	°C	-
Soldering Temperature <sup>2</sup>	-	-	+260	°C	-

#### NOTE:

- Derate linearly to 0 at 75°C
- 2. > 0.05" from base for < 10 sec.



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# **OPTO-ELECTRICAL PARAMETERS**

T<sub>a</sub> = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Desistance	2 ftc., 2854°K <sup>3</sup>	6	10	14	ΚΩ
Light Resistance	100 ftc., 2854°K <sup>3</sup>	-	700	-	Ω
Dark Resistance	5 sec after removal of test light	670	-	-	ΚΩ
Spectral Peak	-	-	550	-	nm

#### NOTE:

<sup>3.</sup> Cells light adapted at 30 to 50 Ftc for 16 hrs. minimum prior to electrical tests.