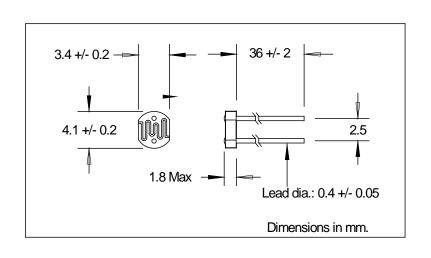


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# **Precision – Control – Results**



#### **DESCRIPTION**

The NSL-5152 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

## **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:

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



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## **OPTO-ELECTRICAL PARAMETERS**

 $T_a = 23$ °C UNLESS NOTED OTHERWISE

| PARAMETER        | TEST CONDITIONS                   | MIN | TYP | MAX | UNITS |
|------------------|-----------------------------------|-----|-----|-----|-------|
| Light Resistance | 2 ftc., 2854°K <sup>3</sup>       | 10  | 15  | 20  | ΚΩ    |
|                  | 100 ftc., 2854°K <sup>3</sup>     | -   | 400 | -   | Ω     |
| Dark Resistance  | 5 sec after removal of test light | 10  | -   | -   | ΚΩ    |
| Spectral Peak    | -                                 | -   | 550 | -   | nm    |

#### NOTE:

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