



## 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	$T_a = 23^\circ\text{C}$ UNLESS NOTED OTHERWISE
Power Dissipation @ $25^\circ\text{C}^1$	-	-	50	mw	-
Operating Temperature	-60	to	+75	$^\circ\text{C}$	-
Storage Temperature	-60	to	+75	$^\circ\text{C}$	-
Soldering Temperature <sup>2</sup>	-	-	+260	$^\circ\text{C}$	-

### NOTE:

1. Derate linearly to 0 at  $75^\circ\text{C}$
2.  $>0.05''$  from base for  $< 10$  sec.

**OPTO-ELECTRICAL PARAMETERS**

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

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

**NOTE:**

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