



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°C ¹	-	-	50	mw	-
Operating Temperature	-60	to	+75	$^{\circ}\text{C}$	-
Storage Temperature	-60	to	+75	$^{\circ}\text{C}$	-
Soldering Temperature ²	-	-	+260	$^{\circ}\text{C}$	-

NOTE:

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

OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Resistance	2 ftc., 2854°K ³	10	15	20	KΩ
	100 ftc., 2854°K ³	-	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.