



DESCRIPTION

The NSL-4142 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)	-	-	80	V	$T_a = 23^\circ\text{C}$ UNLESS OTHERWISE NOTED
Power Dissipation @ 25°C ¹	-	-	50	mW	-
Operating Temperature	-60	to	+75	$^\circ\text{C}$	-
Storage Temperature	-60	T_o	+75	$^\circ\text{C}$	-
Soldering Temperature ²	-	-	+260	$^\circ\text{C}$	-

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	1ftc., 2854°K ³	8	14	20	KΩ
	100 ftc., 2854°K ³	-	250	-	Ω
Dark Resistance	5 sec. after removal of test light	0.8	-	-	MΩ
Spectral Peak	-	-	550	-	nm

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