



**DESCRIPTION**

The NSL-19M51 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	(TA)= 23°C UNLESS OTHERWISE NOTED
Voltage (peak AC or DC)	-	-	100	V	-
Power Dissipation @ 25°C <sup>1</sup>	-	-	50	mW	-
Operation Temperature	-60	to	+75	°C	-
Storage Temperature	-60	to	+75	°C	-
Soldering Temperature <sup>2</sup>	-	-	+260	°C	-

**NOTES:**

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

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

**OPTO-ELECTRICAL PARAMETERS**

T<sub>a</sub> = 23°C unless noted otherwise

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Light Resistance	10 lux., 2854°K <sup>3</sup>	20	-	100	KΩ
	100 lux., 2854°K <sup>3</sup>	-	5	-	
Dark Resistance	10 sec after removal of test light.	20	-	-	MΩ
Spectral Peak	-	-	550	-	nm
Gamma	1-10 Lux	-	0.7	-	-
Gamma	10-100 Lux	-	0.7	-	-

**NOTE:**

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

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Luna Optoelectronics, 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935