To-18 Ceramic Package Photocells

NSL-19M51

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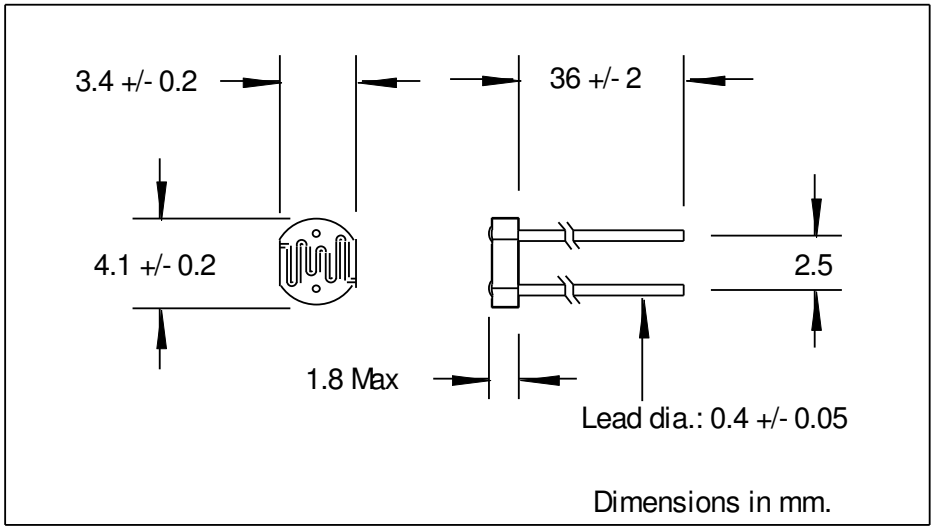
Precision – Control – Results



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[1]	-	-	50	mW	-
Operation Temperature	-60	to	+75	°C	-
Storage Temperature	-60	to	+75	°C	-
Soldering Temperature[2]	-	-	+260	°C	-

NOTES:

1. Derate linearly to 0 at 75°C
2. >0.05" from case 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	10 lux., 2854°K[3]	20	-	100	KΩ
	100 lux., 2854°K[3]	-	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:

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

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