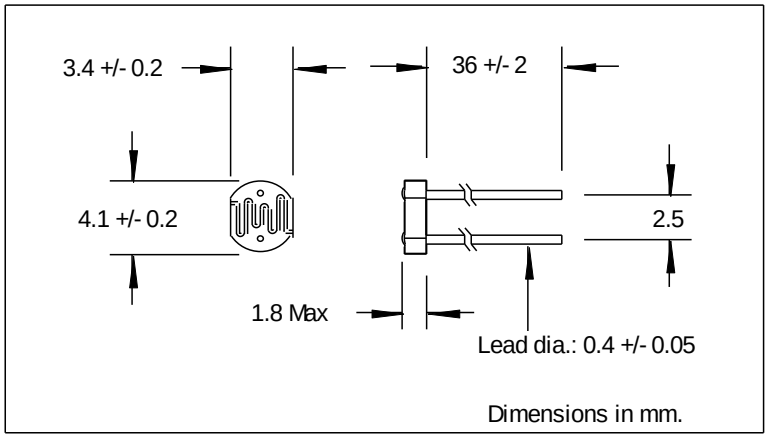
TO-18 Ceramic Package Photocell

NSL-5152



FEATURES

- Passive resistance output
- Ceramic package

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.

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APPLICATIONS

- Industrial

ABSOLUTE MAXIMUM RATING

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V_P	Voltage (peak AC or DC)		100	V
P_d	Power Dissipation @ 25˚C (1)		50	mW
T_{Op}	Operating Temperature	-60	+75	°C
T_{Stg}	Storage Temperature	-60	+75	°C
T_S	Soldering Temperature (2)		+260	°C

Note:

(1) Derate linearly to 0 at 75°C

(2) >0.05" from base for < 10 sec.

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

RELIABILITY

Contact API for recommendations on specific test conditions and procedures.

ELECTRO-OPTICAL CHARACTERISTICS

(TA)= 23°C, UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R_L	Light Resistance	2 ftc., 2854˚K (3)	10	15	20	KΩ
		100 ftc., 2854˚K (3)		400		Ω
R_D	Dark Resistance	5 sec after removal of test light.	10			KΩ
λ_P	Spectral Peak			550		nm

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