



FEATURES

- Passive resistance output
- Ceramic substrate

DESCRIPTION

The NSL-19-018 is a CdS light dependent resistor. It is plastic coated on front side of photocell for moisture resistance, the back side is not coated.

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) >0.08" from case for <5 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, (2)	9.0		15.0	KΩ
R _D	Dark Resistance	5 sec after removal of test light.	1.0			MΩ
λ _P	Spectral Peak			550		nm