



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 |