



FEATURES

- Type 5 photoconductive materials
- Tolerance: $\pm 40\%$ @ 1 ftc, $\pm 33\%$ @ 2 ftc

DESCRIPTION

The NSL-4140 is a Type 5 CdS photoconductive cell in a flat lens TO-18 package

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 case for <10 sec.
- (3) Cells light adapted at 30 to 50 Ftc for 16 hrs minimum prior to electrical tests.
- (4) Print "NSL-4140" and date code "YYWW".

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	1 ftc., 2854°K, (3)	8.4	14.0	19.6	KΩ
		100ftc., 2854°K, (3)		250		KΩ
R _D	Dark Resistance	5 sec after removal of test light.	800			KΩ
λ _P	Spectral Peak			550		nm