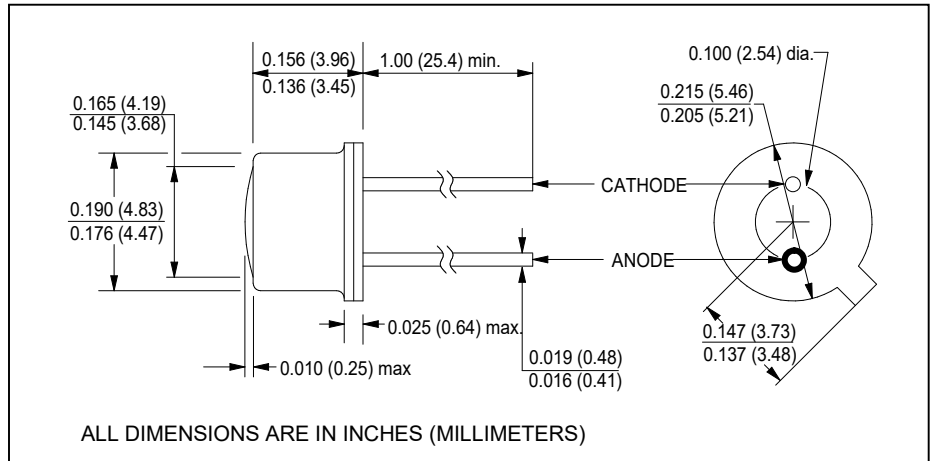


CLD240W

Silicon PIN Photodiode

13-2401A



features

- 70° acceptance angle
- 400 nm to 1100 nm response
- TO-46 hermetic package
- 1.346 mm x 1.346 mm active area
- usable for visible through near-IR

absolute maximum ratings (T_A = 25°C unless otherwise stated)

storage temperature.....	-55°C to +150°C
operating temperature.....	-55°C to +150°C
lead soldering temperature ⁽¹⁾	260°C
reverse voltage.....	35 V
maximum continuous power dissipation ⁽²⁾	200 mW

description

The CLD240W is a 1.346 mm x 1.346 mm active area silicon PIN photodiode featuring high linearity, low dark current and fast response. For additional information, call Clairex.

notes:

1. 0.06" (1.5 mm) from the header for 5 seconds maximum.
2. Derate linearly 1.28 mW/°C free air temperature to T_A = +150°C.
3. E_e = 1 mW/cm², λ = 850 nm.

electrical characteristics (T _A = 25°C unless otherwise noted)						
symbol	parameter	min	typ	max	units	test conditions
I _{SC}	Short-circuit current ⁽³⁾	10	13	-	μA	V _{BIAS} = 0 V
I _D	Dark current	-	-	10	nA	V _R = 10 V, E _e = 0
V _{BR}	Reverse breakdown	35	50	-	V	I _R = 100 μA, E _e = 0
λ _P	Peak sensing wavelength	-	940	-	nm	
C _J	Junction capacitance	-	14	-	pF	V _{BIAS} = 0 V, f = 1 MHz, E _e = 0
t _r , t _f	Output rise and fall time ⁽³⁾	-	15	20	ns	R _L = 1 kΩ
Θ _{HP}	Total angle at half sensitivity points	-	70	-	deg.	

Clairex reserves the right to make changes at any time to improve design and to provide the best possible product.