



SLDA-61S10-XX Series

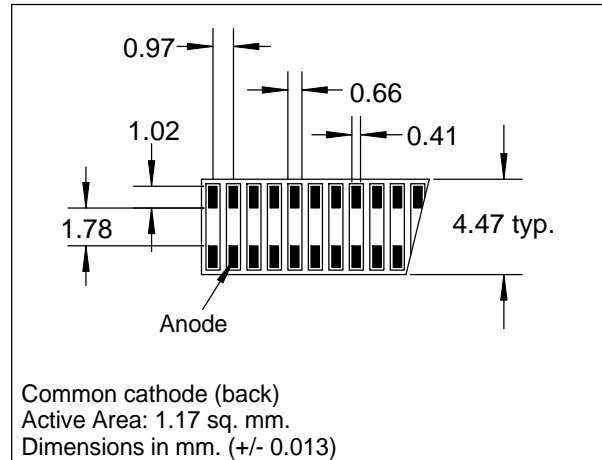
Multi-element Photodiode Array

Features

- Photodiodes spaced on 0.97 mm centers
- Dual solderable anode contacts
- Common cathode contact on back of array
- Up to 16 elements per monolithic array

Description

The Silonex SLDA-61S10-XX series of photodiode arrays are monolithic devices that can be used in precision position sensing applications. The array can be easily attached with conductive epoxy to a ceramic, other substrate or wire soldered to back side. The conductive epoxy provides the electrical connection to the common cathode contact.



Absolute Maximum Ratings

Storage Temperature	-40 to +125°C
Operating Temperature	-40 to +125°C
Soldering Temperature	260°C for 2 sec

To order this part, the 'XX' refers to the number of elements in the array (from 1 to 16 elements).

Electrical Characteristics (per element, $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
I_{SC}	Short Circuit Current	60	80		μA	$V_R = 0\text{V}$, $E_e = 25\text{ mW/cm}^2$ (1)
V_{OC}	Open Circuit Voltage		0.40		V	$E_e = 25\text{ mW/cm}^2$ (1)
I_D	Dark Current			3	μA	$E_e = 0$, $V_R = 1\text{V}$
V_{BR}	Breakdown Voltage	20			V	$I_R = 100\ \mu\text{A}$
TC_I	Temp. Coef., I_{SC}		+0.2		%/°C	(1)
C_J	Junction Capacitance		100		pF	$F = 1\text{ Mhz}$, $V_R = 0$
λ_P	Maximum Sensitivity Wavelength		930		nm	
λ_R	Sensitivity Spectral Range	400		1100	nm	

Specifications subject to change without notice.

103075 REV 1

Note: (1) E_e = light source @ 2854 °K

5200 St. Patrick St., Montreal
Que., H4E 4N9, Canada
Tel: 514-768-8000
Fax: 514-768-8889

The Old Railway, Princes Street
Ulverston, Cumbria, LA12 7NQ, UK
Tel: 01 229 581 551
Fax: 01 229 581 554