



# SLDA-61S10-XX Series

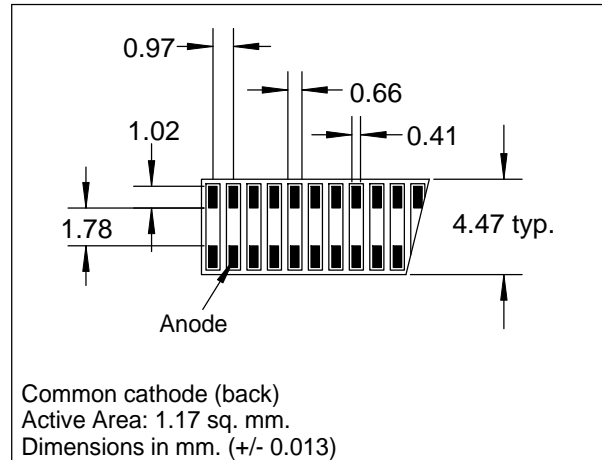
## Multi-element Photodiode Array

### 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		$\mu\text{A}$	$V_R = 0\text{V}$ , $E_e = 25\text{ mW/cm}^2$ (1)
$V_{OC}$	Open Circuit Voltage		0.40		V	$E_e = 25\text{ mW/cm}^2$ (1)
$I_D$	Dark Current			3	$\mu\text{A}$	$E_e = 0$ , $V_R = 1\text{V}$
$V_{BR}$	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	$F = 1\text{ Mhz}$ , $V_R = 0$
$\lambda_P$	Maximum Sensitivity Wavelength		930		nm	
$\lambda_R$	Sensitivity Spectral Range	400		1100	nm	

Specifications subject to change without notice.

103075 REV 1

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

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