



# SLDA-61S16-XX Series

## Multielement Array

### Features

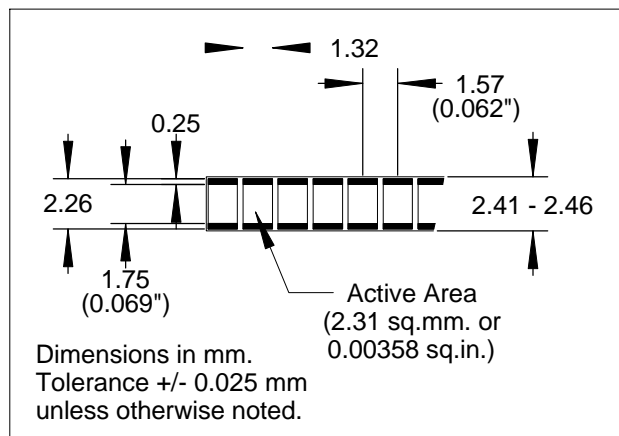
- Diodes spaced on 1.57 mm centers
- Contacts along both edges of the array
- Common cathode contact on the back
- Solderable anode contacts on top surface
- Up to 16 elements per monolithic array

### Description

The Silonex SLDA-61S16-XX series of photodiode arrays are monolithic devices that can be used in precision position sensing applications. The array can be easily bonded with conductive epoxy to a ceramic or other substrate. 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 02 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	80	120		$\mu\text{A}$	$V_R = 0\text{V}$ , $E_e = 25\text{ mW/cm}^2$ (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	$I_R = 100\text{ }\mu\text{A}$
$TC_I$	Temp. Coef., $I_{SC}$		+0.2		%/ $^\circ\text{C}$	(1)
$C_J$	Junction Capacitance		150		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.

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

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