



SLDA-61S16-XX Series

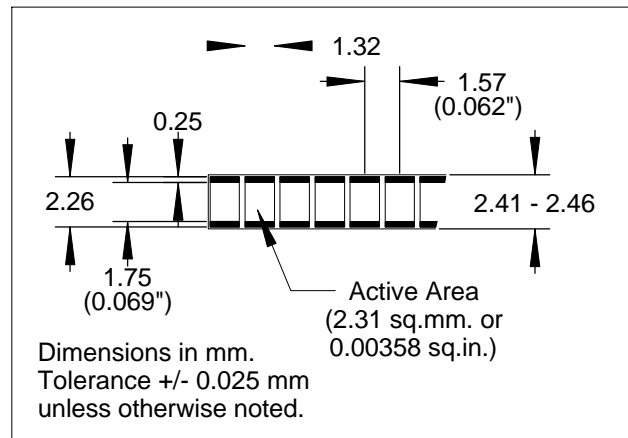
Multielement Array

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.



To order this part the 'XX' refers to the number of elements in the array (from 02 to 16 elements).

Absolute Maximum Ratings

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

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		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		150		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.

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

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