

SLDA-61S10-XX Series

Multi-element Photodiode Array

Features

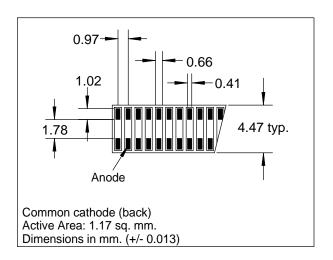
- Photodiodes spaced on 0.97 mm centers
- Dual solderable anode contacts
- Common cathode contact on back of array
- Up to 16 elements per monolithic array

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°C unless otherwise noted)

Symbol	Parameter	Min	Тур	Max	Units	Test Conditions
I _{sc}	Short Circuit Current	60	80		μΑ	$V_R = 0V$, Ee = 25 mW/cm ² (1)
V_{OC}	Open Circuit Voltage		0.40		V	$Ee = 25 \text{ mW/cm}^2 (1)$
I _D	Dark Current			3	μΑ	$Ee = 0, V_R = 1V$
V_{BR}	Breakdown Voltage	20			V	$I_R = 100 \mu A$
TCı	Temp. Coef., I _{SC}		+0.2		%/°C	(1)
CJ	Junction Capacitance		100		рF	$F = 1 \text{ Mhz}, V_R = 0$
λ_{P}	Maximum Sensitivity Wavelength		930		nm	
λ_{R}	Sensitivity Spectral Range	400		1100	nm	

Specifications subject to change without notice.

Note: (1) Ee = light source @ 2854 °K

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