



SLDA-61S25-XX Series

Multielement Array

Features

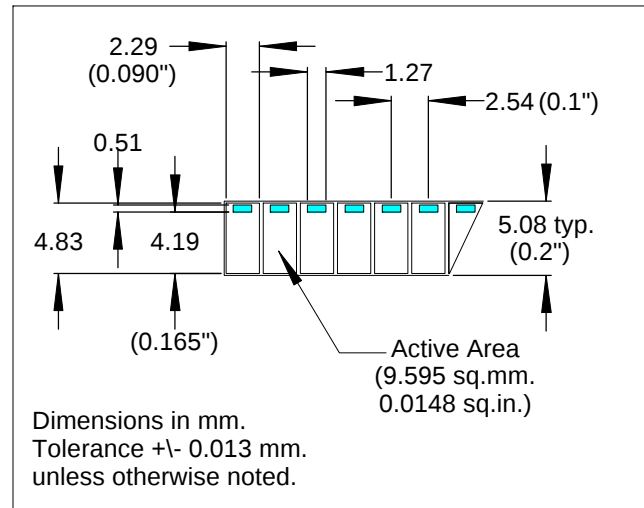
- Diodes spaced on 2.54 mm centers
- Common cathode contact on the back
- Solderable anode contacts on top surface
- Up to 8 elements per monolithic array

Description

The Silonex SLDA-61S25-XX series of photodiode arrays are monolithic devices that can be used in precision position sensing applications. The array can be 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 08 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	350	450		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		$\%/^\circ\text{C}$	(1)
C_J	Junction Capacitance		400		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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