



SLDA-61S13-XX Series

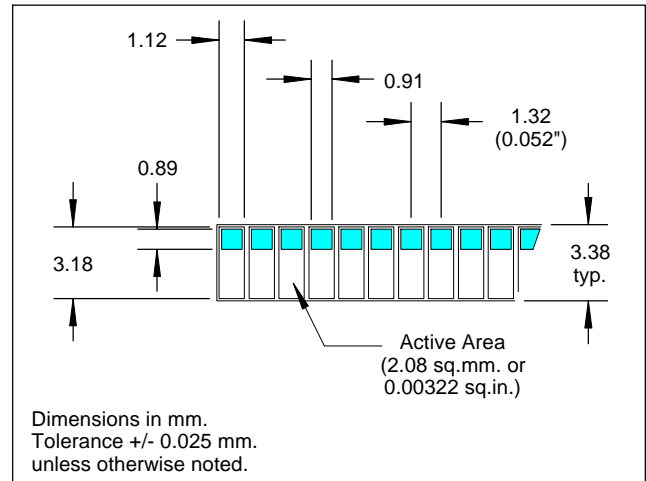
Multielement Array

Features

- Diodes spaced on 1.3 mm centers
- Common cathode
- Solderable anode contacts on top surface
- Up to 16 elements per monolithic array

Description

The Silonex SLDA-61S13-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 | 70 | 100 | | 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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