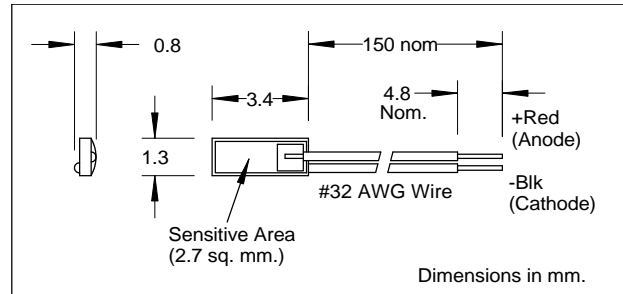


Features

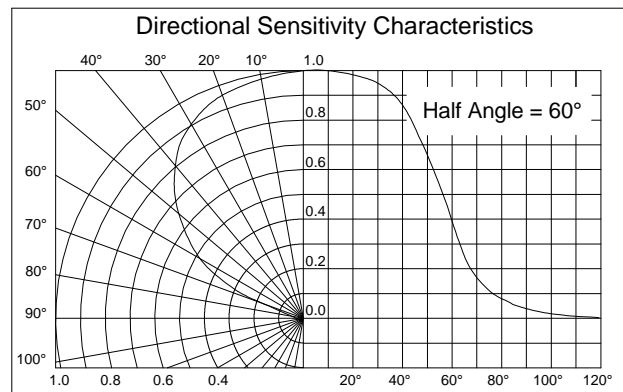
- Visible to IR spectral irradiance range
- High reliability
- Oxide passivation
- Linear short circuit current
- Low capacitance, high speed
- Protective coating
- Available in arrays where # indicates number of elements (maximum of 8 elements)

Description

The Silonex series of silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range of illumination. These devices are widely used for light sensing and power generation because of their stability and high efficiency. They are particularly suited to power conversion applications due to their low internal impedance and relatively high shunt impedance, stability, and humidity characteristics. These devices also provide a reliable, inexpensive detector for applications such as light beam sensing and instrumentation. The electrical characteristics below are per element. In the multielement arrays the cathodes are common to a single cathode wire.



Also available without leads as part number SLCD-61N8



Absolute Maximum Ratings

Storage Temperature	-40°C to +105°C
Operating Temperature	-40°C to +105°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
I _{SC}	Short Circuit Current	100	170		μA	V _R =0V, E _e =25mW/cm ² (1)
V _{OC}	Open Circuit Voltage		0.40		V	E _e =25mw/cm ² (1)
I _D	Reverse Dark Current			1.7	μA	V _R =5V, E _e =0
C _J	Junction Capacitance		100		pF	V _R =0V, E _e =0, f=1MHz
S _λ	Spectral Sensitivity		0.55		A/W	λ=940nm
V _{BR}	Reverse Breakdown Voltage	20			V	I _R =100μA
λ _P	Maximum Sensitivity Wavelength		930		nm	
λ _R	Sensitivity Spectral Range	400		1100	nm	
θ _{1/2}	Acceptance Half Angle		60		deg	

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

Specifications subject to change without notice

103193 REV 2

5200 St. Patrick St., Montreal
Que., H4E 4N9, Canada
Tel: 514-768-8000
Fax: 514-768-8889

The Old Railway, Princes Street
Ulverston, Cumbria, LA12 7NQ, UK
Tel: 01 229 581 551
Fax: 01 229 581 554