

### Features

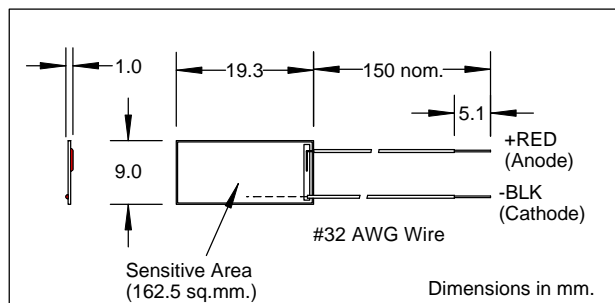
- Visible to IR spectral sensitivity range
- Oxide passivation
- Linear short circuit current vs irradiance
- Low capacitance, high speed
- Protective coating

### Description

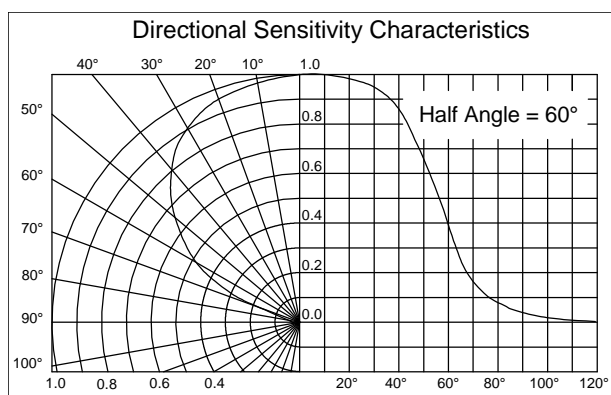
The Silonex series of silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range of illumination. They are particularly suited to power conversion applications due to their low internal impedance, relatively high shunt impedance, and stability. The photodiodes have a protective coating that protects them from humidity effects. These devices also provide a reliable and inexpensive detector for instrumentation and light beam sensing applications.

### Absolute Maximum Ratings

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



Also available without leads as part number SLCD-61N7



### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
I <sub>SC</sub>	Short Circuit Current	5	8		mA	V <sub>R</sub> =0V, E <sub>e</sub> =25mW/cm <sup>2</sup> (1)
V <sub>OC</sub>	Open Circuit Voltage		0.40		V	E <sub>e</sub> =25mw/cm <sup>2</sup> (1)
I <sub>D</sub>	Reverse Dark Current			5	μA	V <sub>R</sub> =5V, E <sub>e</sub> =0
C <sub>J</sub>	Junction Capacitance		2.5		nF	V <sub>R</sub> =0V, E <sub>e</sub> =0, f=1MHz
S <sub>λ</sub>	Spectral Sensitivity		0.55		A/W	λ=940nm
V <sub>BR</sub>	Reverse Breakdown Voltage	20			V	I <sub>R</sub> =100μA
λ <sub>P</sub>	Maximum Sensitivity Wavelength		930		nm	
λ <sub>R</sub>	Sensitivity Spectral Range	400		1100	nm	
θ <sub>1/2</sub>	Acceptance Half Angle		60		deg	(off center-line)

Notes: (1) E<sub>e</sub> = light source @ 2854 °K

Specifications subject to change without notice

101409 REV 5