

SLCD-61N5 Solderable Planar Photodiode

Features

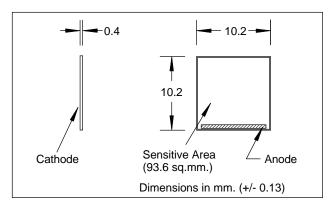
- Visible to IR spectral irradiance range
- High reliability
- Oxide passivation
- Linear short circuit current
- · Low capacitance, high speed

Description

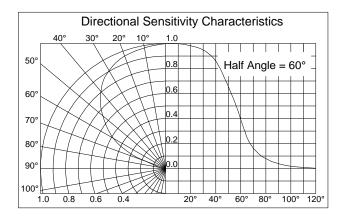
The Silonex series of silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range of illumination. These devices are widely used for light sensing and power generation because of their stability and high efficiency. They are particularly suited to power conversion applications due to their low internal impedance, relatively high shunt impedance, and stability. These devices also provide a reliable and inexpensive detector for instrumentation and light beam sensing applications.

Absolute Maximum Ratings

Storage Temperature -40°C to +125°C Operating Temperature -40°C to +125°C



Also available with leads as part number SLSD-71N5



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

Parameter	Min	Тур	Max	Units	Test Conditions
Short Circuit Current	2.5	4.0		mA	V _R =0V, Ee=25mW/cm ² (1)
Open Circuit Voltage		0.40		V	Ee=25mw/cm ² (1)
Reverse Dark Current			3.3	μΑ	V _R =5V, Ee=0
Junction Capacitance		2.0		nF	V _R =0V, Ee=0, f=1MHz
Spectral Sensitivity		0.55		A/W	λ=940nm
Reverse Breakdown Voltage	20			V	I _R =100μA
Maximum Sensitivity Wavelength		930		nm	
Sensitivity Spectral Range	400		1100	nm	
Acceptance Half Angle		60		deg	(off center-line)
	Short Circuit Current Open Circuit Voltage Reverse Dark Current Junction Capacitance Spectral Sensitivity Reverse Breakdown Voltage Maximum Sensitivity Wavelength Sensitivity Spectral Range	Short Circuit Current 2.5 Open Circuit Voltage Reverse Dark Current Junction Capacitance Spectral Sensitivity Reverse Breakdown Voltage 20 Maximum Sensitivity Wavelength Sensitivity Spectral Range 400	Short Circuit Current 2.5 4.0 Open Circuit Voltage 0.40 Reverse Dark Current Junction Capacitance 2.0 Spectral Sensitivity 0.55 Reverse Breakdown Voltage 20 Maximum Sensitivity Wavelength 930 Sensitivity Spectral Range 400	Short Circuit Current 2.5 4.0 Open Circuit Voltage 0.40 Reverse Dark Current 3.3 Junction Capacitance 2.0 Spectral Sensitivity 0.55 Reverse Breakdown Voltage 20 Maximum Sensitivity Wavelength 930 Sensitivity Spectral Range 400 1100	Short Circuit Current 2.5 4.0 mA Open Circuit Voltage 0.40 V Reverse Dark Current 3.3 μA Junction Capacitance 2.0 nF Spectral Sensitivity 0.55 A/W Reverse Breakdown Voltage 20 V Maximum Sensitivity Wavelength 930 nm Sensitivity Spectral Range 400 1100 nm

Specifications subject to change without notice

104114 REV 0

Notes: (1) Ee = light source @ $2854 \,^{\circ}$ K

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