SLSD-71N8
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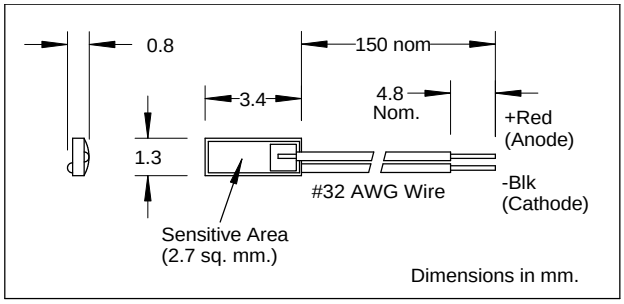
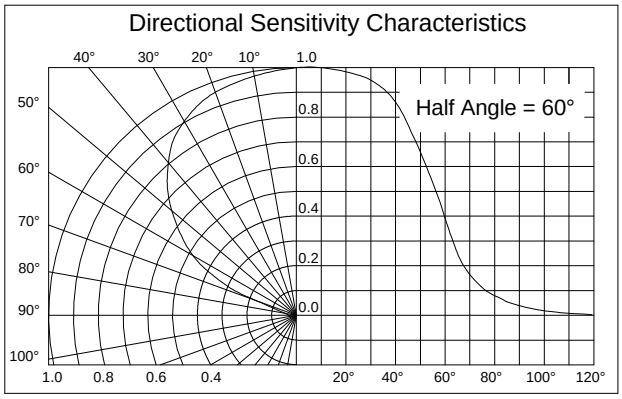
Solderable Planar Photodiode

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)



Also available without leads as part number SLCD-61N8

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.



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, Ee=25mW/cm^2 (1)
V_{OC}	Open Circuit Voltage		0.40		V	Ee=25mw/cm^2 (1)
I_D	Reverse Dark Current			1.7	µA	V_R=5V, Ee=0
C_J	Junction Capacitance		100		pF	V_R=0V, Ee=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	
$\theta_{1/2}$	Acceptance Half Angle		60		deg	

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

Specifications subject to change without notice

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