

Solderable Planar Photodiode

Features

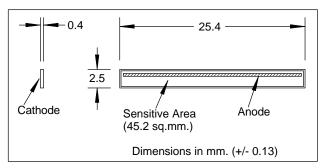
- Visible to IR spectral irradiance range
- High reliability
- Oxide passivation
- Low capacitance, high speed

Description

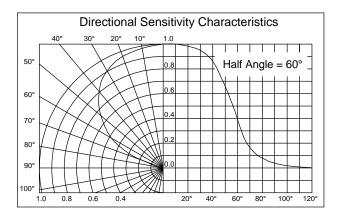
The Silonex series of silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range of illumination. These devices are widely used for light sensing and power generation because of their stability and high efficiency. They are particularly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

Absolute Maximum Ratings

Storage Temperature -40° C to $+125^{\circ}$ C Operating Temperature -40° C to $+125^{\circ}$ C



Also available with leads as part number SLSD-71N4



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

Symbol	Parameter	Min	Тур	Max	Units	Test Conditions
I _{SC}	Short Circuit Current	1.4	2.3		mA	$V_R=0V$, Ee=25mW/cm ² (1)
V _{oc}	Open Circuit Voltage		0.40		٧	Ee=25mw/cm ² (1)
I_D	Reverse Dark Current			5	μΑ	V _R =5V, Ee=0
C_{J}	Junction Capacitance		1.5		nF	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	(off center-line)

Specifications subject to change without notice

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

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