



Solderable Planar Photodiode

Features

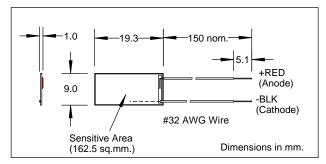
- Visible to IR spectral sensitivity range
- Oxide passivation
- Linear short circuit current vs irradiance
- Low capacitance, high speed
- Protective coating

Description

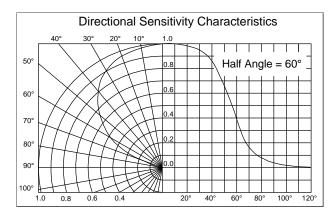
The Silonex series of silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range of illumination. They are particularly suited to power conversion applications due to their low internal impedance, relatively high shunt impedance, and stability. 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_A=25°C unless otherwise noted)

Symbol	Parameter	Min	Тур	Max	Units	Test Conditions
I _{sc}	Short Circuit Current	5	8		mA	V _R =0V, Ee=25mW/cm ² (1)
V _{oc}	Open Circuit Voltage		0.40		V	$Ee=25 \text{mw/cm}^2$ (1)
I_{D}	Reverse Dark Current			5	μΑ	V _R =5V, Ee=0
CJ	Junction Capacitance		2.5		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)

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

Specifications subject to change without notice

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