



SLCD-61N5

Solderable Chip Silicon Photodiode

The SLCD-61N5 is large 96.1mm² active area solderable Silicon Photodiode. The device offers linear short circuit current over a wide range of optical power with high reliability. It is widely used for light sensing due to their stability and high efficiency. It is particularly suited for power conversion applications due to their low internal impedance, relatively high shunt impedance, and stability. It is a reliable detector for instrumentation and light beam sensing applications.

Applications

Industrial Sensing
Instrumentation
Light beam sensing

Features

Very large active area
High reliability
Passivated top surface
Linear short circuit current
Low capacitance, high speed

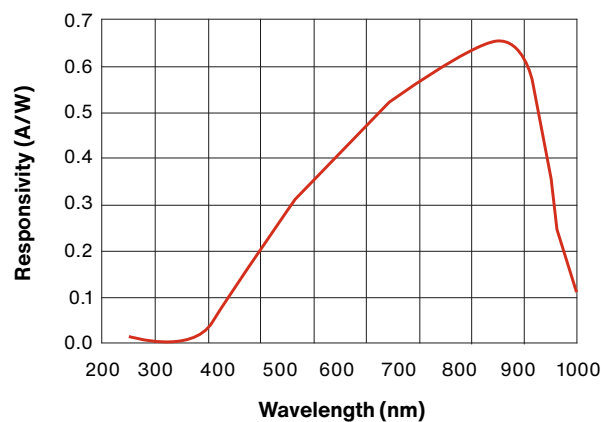
Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Reverse Voltage	V_R	-	20	V
Operating Temperature	T_{OP}	-40	+100	°C
Storage Temperature	T_{STG}	-55	+125	°C
Package	Bare Die			

Typical Electro-Optical Specifications at $T_A=23\text{ °C}$

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Active Area Dimension	-	$A.A._D$	-	9.86 x 9.4	-	mm
Active Area	-	A.A.	-	96.1	-	mm ²
Wavelength Range	-	-	400	-	1100	nm
Short Circuit Current	$V_R=0V, E_e=25mW/cm^2$	I_{SC}	2.5	4.0	-	mA
Open Circuit Voltage	$E_e=25mW/cm^2$	V_{OC}	-	0.40	-	V
Responsivity	$\lambda=940nm$	R_λ	-	0.55	-	A/W
Capacitance	$V_R=0V, E_e=0, f=1MHz$	C	-	2.0	-	nF
Dark Current	$V_R=5V$	I_D	-	-	3.3	μA

Spectral Response



Mechanical Specifications

Units are in mm

