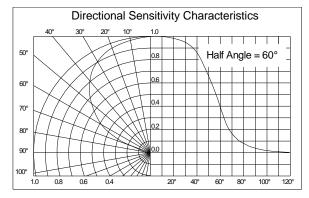
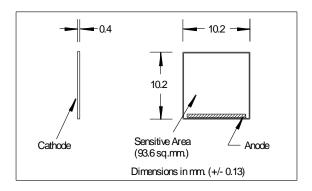
# Solderable Planar Photodiode



SLCD-61N5





### **FEATURES**

- diance range
- High reliability
- Oxide passivation
- Low capacitance, high speed

### **DESCRIPTION**

Visible to IR spectral irra- This Silicon solderable planar photodiodes feature low cost, high reliability, and linear short circuit current over a wide range o illumination. These devices are widely used for light sensing and power generation because of their stability and high effi Linear short circuit current ciency. They are particularly suited to power conversion appli cations due to their low internal impedance, relatively high shun impedance, and stability. These devices also provide a reliable and inexpensive detector for instrumentation and light bear sensing applications.

### **APPLICATIONS**

Industrial

# **ABSOLUTE MAXIMUM RATING**

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
$T_{Op}$	Operating Temperature	-40	+125	°C
$T_{Stg}$	Storage Temperature	-40	+125	°C
Ts	Soldering Temperature*	·	+260	°C

## Notes:

(1) Ee = light source @ 2854 °K,

### RELIABILITY

Contact API for recommendations on specific test conditions and procedures.

## **ELECTRO-OPTICAL CHARACTERISTICS RATING**

(TA)= 23°C, UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>SC</sub>	Short Circuit Current	VR=0V, Ee=25mW/cm2 (1)	2.5	4.0	-	mA
Voc	Open Circuit Voltage	Ee=25mW/cm2 (1)		0.40	-	V
$I_D$	Reverse Dark Current:	VR=5V, Ee=0			3.3	μA
$V_{BR}$	Reverse Breakdown Voltage	I <sub>R</sub> =100μA	20			V
$\lambda_{P}$	Maximum Sensitivity Wavelength			930		nm
	Spectral Sensitivity	λ=940nm		0.55		A/W
$\lambda_{R}$	Sensitivity Spectral Range		400		1100	nm
C <sub>j</sub>	Junction Capacitance	V <sub>R</sub> =0V, Ee=0, f=1MHz	-	2.0		nF
$\theta_{1/2}$	Acceptance Half Angle	(off center-line)	-	60		deg

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