Solderable Planar Photodiode

SLCD-61N5

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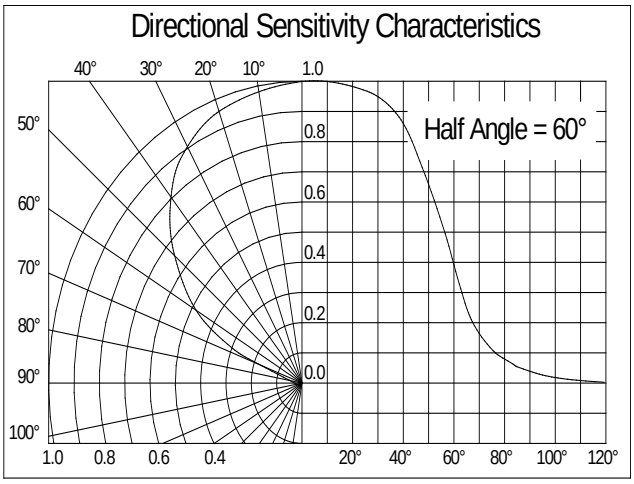

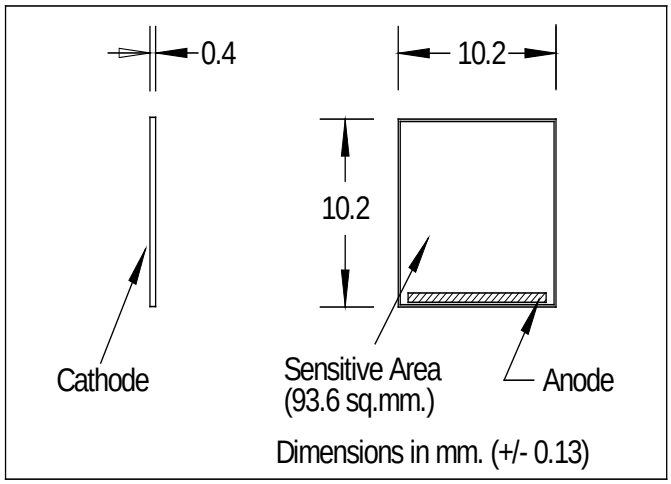

DESCRIPTION

This 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. These devices also provide a reliable and inexpensive detector for instrumentation and light beam sensing applications

FEATURES

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

RELIABILITY

This Luna high-reliability detector is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.
Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Industrial

ABSOLUTE MAXIMUM RATINGS

NOTE: Ee = light source@2854°K

SYMBOL	MIN		MAX	UNITS	
Operating Temperature	-40	to	+125	°C	-
Storage Temperature	-40	to	+125	°C	-
Soldering Temperature	-	-	+260	°C	-

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

REV 01-04-16

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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Short Circuit Current	V_R = 0V, Ee = 25 mW/cm^2	2.5	4.0	-	mA
Open Circuit Voltage	Ee= 25mW/cm^2	-	0.40	-	V
Reverse Dark Current	V_R = 5V, Ee = 0	-	-	3.3	µA
Reverse Breakdown Voltage	I_R = 100µA	20	-	-	V
Maximum Sensitivity Wavelength	-	-	930	-	nm
Spectral Sensitivity	λ = 940 nm	-	0.55	-	A/W
Sensitivity Spectral Range	-	400	-	1100	nm
Junction Capacitance	V_R = 0V, Ee = 0, f=1MHz	-	2.0	-	nF
Acceptance Half Angle	(off center-line)	-	60	-	deg

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