

Solderable Planar Photodiode

PRELIMINARY

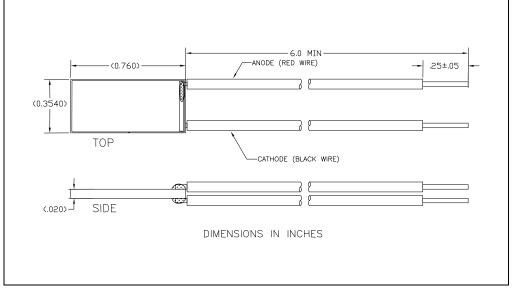
RoHS

SLSD-71N700

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Precision – Control – Results





DESCRIPTION

The SLSD-71N700 is a solderable planar photodiode featuring 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. 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.

RELIABILITY

This API 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 API for recommendations on specific test conditions and procedures.

FEATURES

- Visible to IR spectral irradiance range
- High reliability
- Oxide passivation
- Linear short circuit current
- Low capacitance, high speed
- Si surface protected with a thin film coating

APPLICATIONS

- Light sensing
- Power generation

Operating Temperature	-40	to	+105	°C	non condensing
Storage Temperature	-40	to	+105	℃	
Soldering Temperature			+240	°C	
Wavelength Range	400	to	1100	nm	

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. Page 1/2

ABSOLUTE MAXIMUM RATINGS



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ARAMETER TEST CONDITIONS		MIN	ТҮР	MAX	UNITS
Short Circuit Current	V _R =0V, Ee=25mW/cm ² **	2.5	4.5	-	mA
Open Circuit Voltage	Ee=25mW/cm ² **	-	0.40	-	V
Dark Current	V _R =5V, Ee=0, T=25 ℃	-	-	5.0	μΑ
Junction Capacitance	V _R =0V, Ee=0, f=1MHz	-	2.5	-	nF
Spectral Sensitivity	λ =940nm; Flood illumination*	-	0.55	-	A/W
Breakdown Voltage	I _B =100μA	20	-	-	V
Maximum Sensitivity Wavelength	-	-	930	-	nm
Acceptance Half Angle	(off center-line)	-	60	-	deg

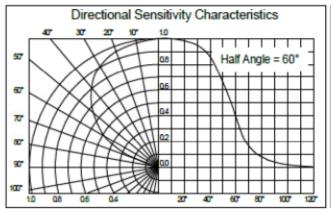
* Minimum 50% of active area illuminated

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** Light source @ 2854 °K

TYPICAL PERFORMANCE

DIRECTIONAL SENSITIVITY



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