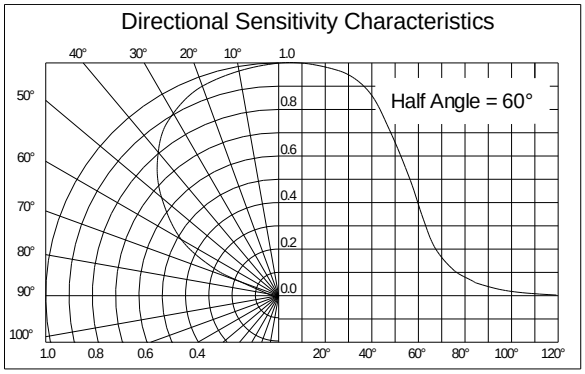
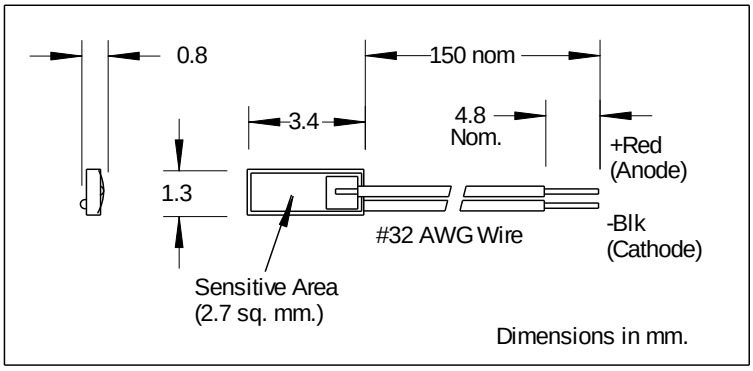
Solderable Planar Photodiode

SLSD-71N800





FEATURES

- Lead-Free
- Visible to IR spectral irradiance range
- High reliability
- Oxide passivation
- Linear short circuit current
- Low capacitance, high speed
- Available in arrays where # indicates number of elements (maximum of 8 elements)

DESCRIPTION

These 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. In the multi-element arrays the cathodes are common to a single cathode wire.

APPLICATIONS

- Industrial

ABSOLUTE MAXIMUM RATING

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
T_{Op}	Operating Temperature	-40	+105	°C
T_{Stg}	Storage Temperature	-40	+105	°C
T_S	Soldering Temperature*		+260	°C

Notes:

(1) Ee = light source @ 2854 °K,

(2) Available without leads as part number SLCD-61N800 or as chip array as SLCD-61N800-XX

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
ISC	Short Circuit Current	VR=0V, Ee=25mW/cm2 (1)	100	170	-	µA
VOC	Open Circuit Voltage	Ee=25mW/cm2 (1)		0.4	-	V
ID	Reverse Dark Current:	VR=5V, Ee=0			1.7	µA
VBR	Reverse Breakdown Voltage	IR=100µA	20			V
λP	Maximum Sensitivity Wavelength			930		nm
λS	Spectral Sensitivity	λ=940nm		0.55		A/W
λR	Sensitivity Spectral Range		400		1100	nm
Cj	Junction Capacitance	VR=0V, Ee=0, f=1MHz	-	100		pF
θ1/2	Acceptance Half Angle	(off center-line)	-	60		deg

Advanced Photonix Inc. 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935 • www.advancedphotonix.com

REV 03/27-15

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Advanced Photonix ***manufacturer:***

Other Similar products are found below :

NSL-32SR3 SLCD-61N5 NSL 4962 SLD-70 BG2A NSL 06S53 NORPS-12 NSL 19M51