

6mm Silicon PIN Photodiode with Ceramic package

Version: 3.1 17-03-01

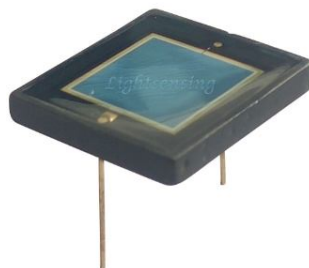
Model: LSSPD-6

Features:

- High reliability, low dark current
- 400-1100nm spectral range
- Active diameter 6x6mm
- non-hermetic Ceramic package with epoxy resin

Applications:

- Optical sensor
- Optical measurement equipment
- Industrial automatic control
- IR/ Laser light Monitoring
- Fluorescence detector
- Medical equipment
- Spectrophotometry/CT scan



Absolute maximum ratings:

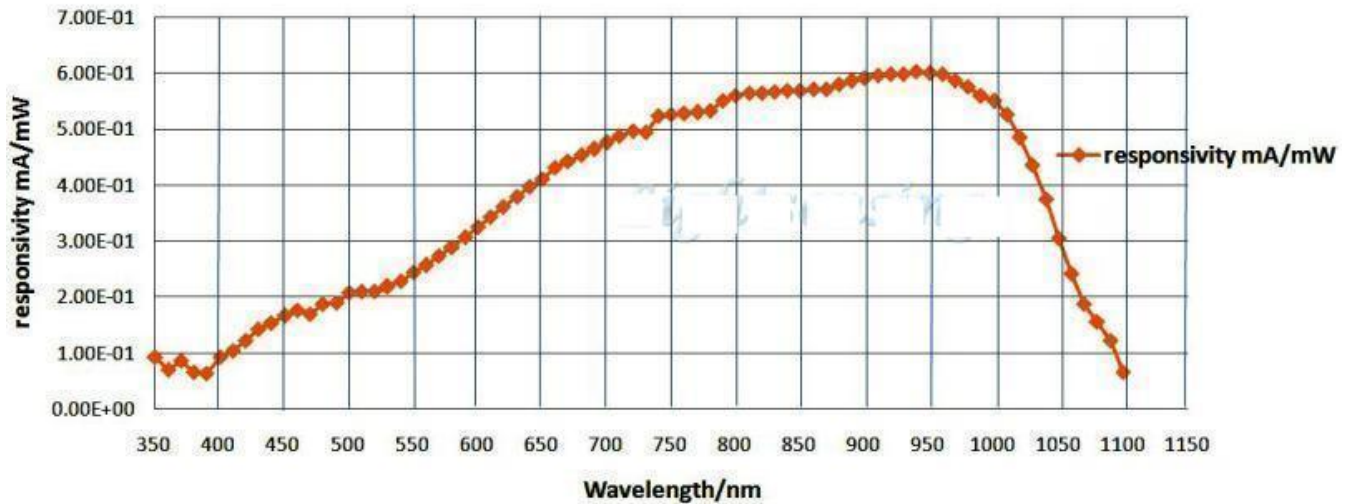
parameter	symbol	value	unit
Operating temperature	Top	-20~+60	℃
Storage temperature	Tstg	-25~+85	℃
Forward current	I _f	18	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	Ts(10s)	260	℃

Electrical and optical characteristics:(T=25℃)

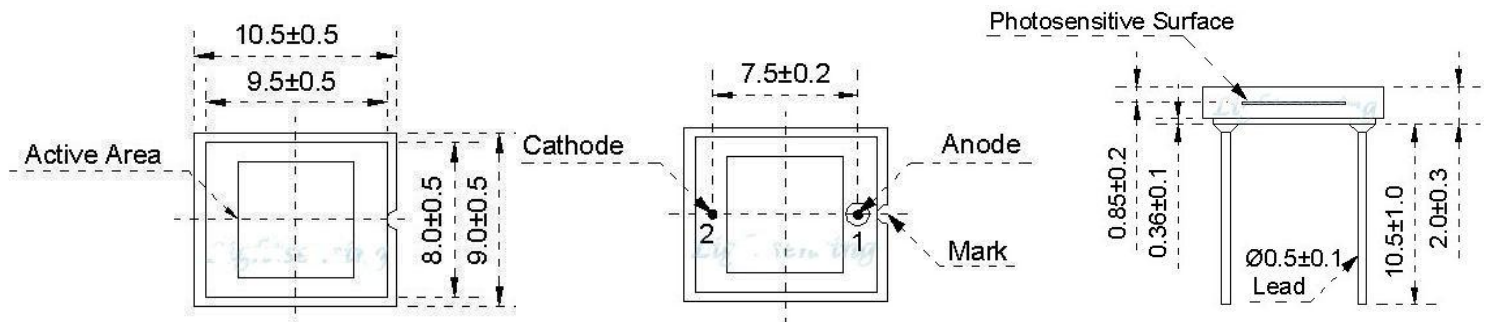
parameter	symbol	unit	Value (typ.)
Active diameter		mm	6×6
Spectral range	λ	nm	400-1100
Responsivity	Re(V _R =5V,λ=405nm)	mA/mW	0.10
	Re(V _R =5V,λ=650nm)	mA/mW	0.38
	Re(V _R =5V,λ=850nm)	mA/mW	0.55
	Re(V _R =5V,λ=1064nm)	mA/mW	0.20
Dark current	I _D (0V)	nA	0.12
	I _D (5V)	nA	1.5
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	60
Junction capacitance	C _j (f=1MHz,0V)	pF	500
	C _j (f=1MHz,5V)	pF	80
Saturated Optical Power	Ps(V _R =5V)	mW	30
Operating voltage	V _R	V	0-10
Shunt resistance	R _{sh} (V _R =10mV)	MΩ	50
package	non-hermetic Ceramic package with epoxy resin		

NOTICE: The above product specifications are subject to change without notice.

The typical Responsivity curve



The Ceramic package and Lead



Order information

LSSPD-6-X

X=Ce Non-hermetic Ceramic package with epoxy resin
X=Other By customer's request

The cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protecting measures are recommend in storage, transporting and using.