

1mm InGaAs PIN photodiode COC

V4.1LIPD-0051 20-10-01

Model: LSIPD-L1-COC

Features:

- High reliability, low dark current
- 800-1700nm spectral range
- Active diameter 1mm
- Chip on carrier

Applications:

- Optical sensor, LD monitor
- Optical power meter
- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Response spectrum testing



Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature(in N ₂ environment or in vacuum)	Top	-40~+85	°C
Storage temperature (in N ₂ environment or in vacuum)	Tstg	-40~+100	°C
Reverse voltage	Vr	10	V
Soldering temperature(time)	Ts (10s)	260	°C

Electrical and optical characteristics:(T=25°C)

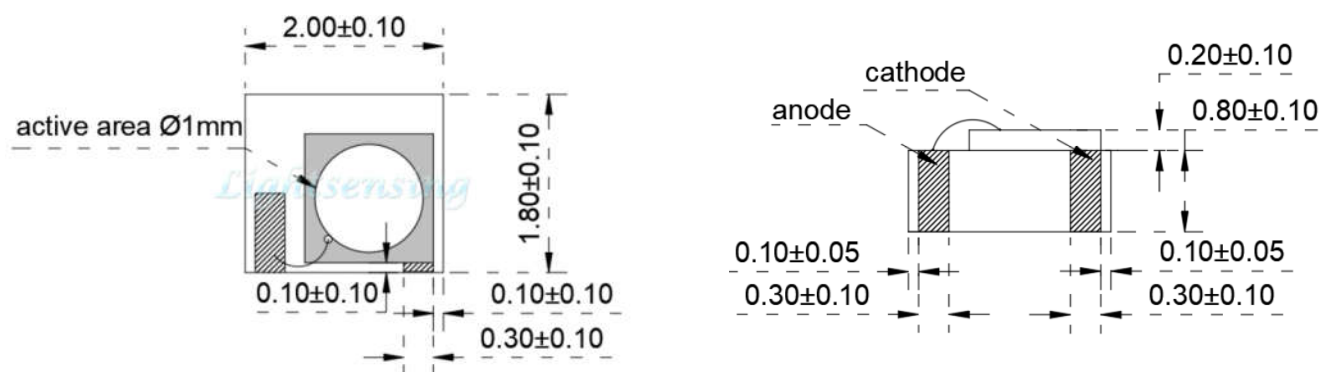
parameter	symbol	unit	Value typ.
Active diameter	Φ	mm	1
Spectral range	λ	nm	800-1700
Responsivity	Re(Vr=0V,λ=1310nm)	mA/mW	0.85
	Re(Vr=0V,λ=1550nm)	mA/mW	0.90
Response time	Tr (RL=50Ω,Vr=5V)	ns	10
Dark current	Id(Vr=0V)	nA	0.1
	Id(Vr=5V)	nA	1
Reverse Breakdown voltage	VBR (Id=10uA)	V	30
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	1200
	Cj (f=1MHz, Vr=5V)	pF	75
Saturated Optical Power	Ps(Vr=0V)	mW	8(Min.5)
	Ps(Vr=5V)	mW	15
Reverse operating voltage	Vr	V	0-5
Shunt resistance	Rsh (Vr=10mV)	MΩ	100
package	Chip on Carrier		

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

The typical Responsivity curve



Dimension and PIN description



Note: For more information on dimension, please contact us.

Order information

LSIPD-L1-X

X=COC Chip on Carrier
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.

