

1mm UV Silicon PIN photodiode

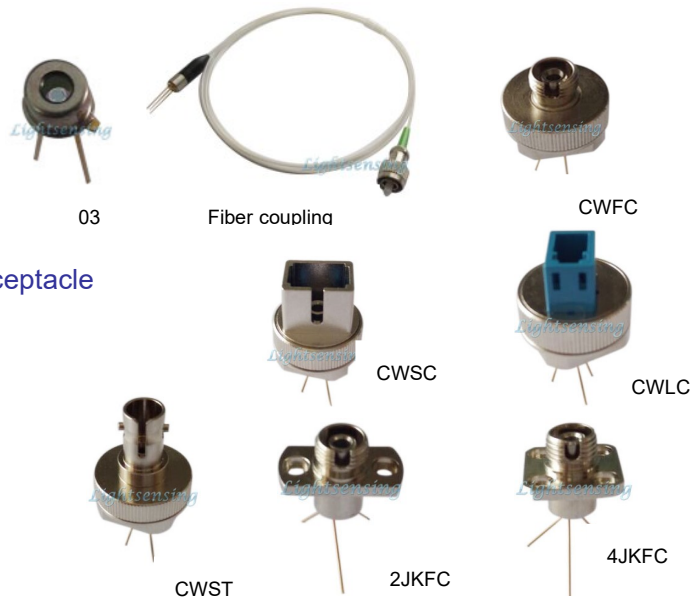
Version: 3.1.1 18-06-01

Model: LSSPD-U1
Features:

- High reliability, low dark current
- Active diameter 1x1mm
- 200-1100nm spectral range
- Hermetic TO46 Can with UV window or with receptacle

Applications:

- Optical sensor
- 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	Top	-40~+85	°C
Storage temperature	Tstg	-40~+100	°C
Forward current	I _f	9	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	T _s (10s)	260	°C

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

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	1x1
Spectral range	λ	nm	200-1100
Responsivity	Re(V _R =0V,λ=200nm)	mA/mW	0.08
	Re(V _R =0V,λ=405nm)	mA/mW	0.15
	Re(V _R =0V,λ=650nm)	mA/mW	0.32
	Re(V _R =0V,λ=905nm)	mA/mW	0.44
	Re(V _R =0V,λ=1064nm)	mA/mW	0.27
Response time	T _r (R _L =50Ω, V _R =5V)	ns	0.6
Dark current	I _d (V _R =0V)	pA	0.2
	I _d (V _R =5V)	pA	20
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	100
Junction capacitance	C _j (f=1MHz, V _R =0V)	pF	33
	C _j (f=1MHz, V _R =5V)	pF	4.5
Saturated Optical Power	P _s (V _R =5V)	mW	12
Operating voltage	V _R	V	0-15
Shunt resistance	R _{sh} (V _R =10mV)	GΩ	50
package	Hermetic TO46 Can with UV window or with receptacle or fiber coupling		

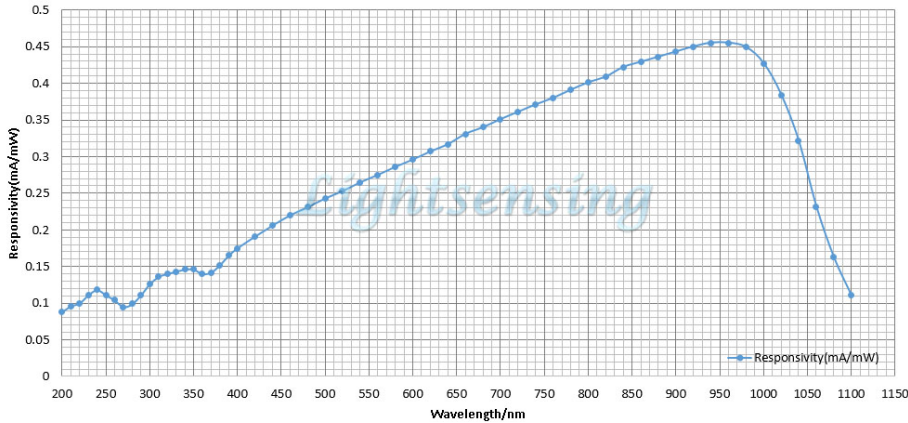
NOTICE: The above product specifications are subject to change without notice.

地址: 北京市海淀区苏州街 33 号 12 层 1202 邮编: 100080

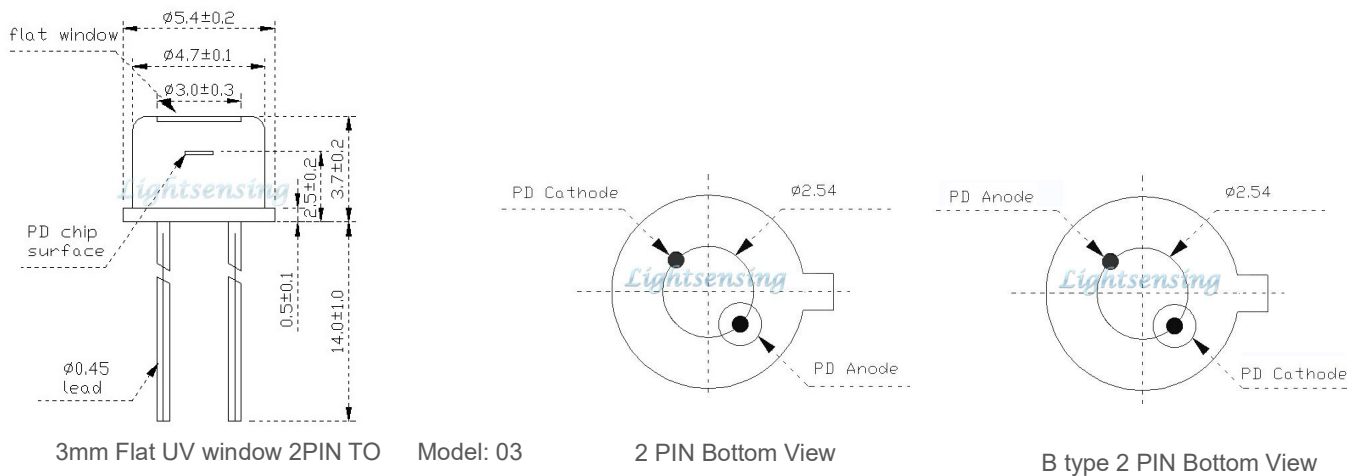
Address: Floor 12 Rm 1202, No 33 Suzhou Street, Haidian District, Beijing 100080, China.

 TEL: +86-010-82873449 FAX: +86-010-62557230 Email: info@lightsensing.com Website: www.lightsensing.com

The typical Responsivity curve



TO package and Lead



Note: In order to get other dimensions, please contact us.

Order information

LSSPD-U1-X-X	X=03	TO-46 Can with 3mm flat UV window cap
X=2P 2 PIN out	X=SMFA/P	TO-46 Can with SM Fiber coupling with FC-APC/FC-PC connector
X=B2P B type 2 PIN out	X=SMSA	TO-46 Can with SM Fiber coupling with SC-APC connector
	X=6MMFA/P	TO-46 Can with 62.5um MM Fiber coupling with FC-APC/FC-PC connector
	X=10MMFA/P	TO-46 Can with 105um MM Fiber coupling with FC-APC/FC-PC connector
	X=20MMFA/P	TO-46 Can with 200um MM Fiber coupling with FC-APC/FC-PC connector
	X=CWFC	TO-46 Can with replaceable receptacle with FC connector
	X=CWSC	TO-46 Can with replaceable receptacle with SC connector
	X=CWLC	TO-46 Can with replaceable receptacle with LC connector
	X=CWST	TO-46 Can with replaceable receptacle with ST connector
	X=2JKFC	TO-46 Can with fixed receptacle with FC connector and 2 pieces of fix holes
	X=4JKFC	TO-46 Can with fixed receptacle with FC connector and 4 pieces of fix holes
	X=Other	By customer's request. Example, We can provide photodiode with filter

The cautions

- 1: The above product specifications are subject to change without notice.
- 2: The suitable ESD protection is required in storage, transportation and using
- 3: The fiber bending radius no less than 20mm for avoiding fiber damaged ,Be sure the fiber coupling facet is clean before connecting it to opto-circuit.

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