

1.2mm UV Silicon PIN photodiode

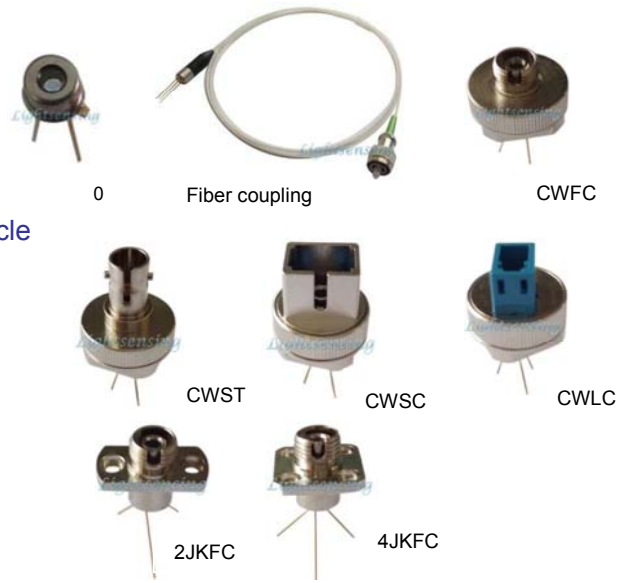
Model: LSSPD-U1.2

Features:

- High reliability, low dark current
- 200-1100nm spectral range
- Active diameter 1.2x1.2mm
- 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	10	mA
Reverse voltage	V _r	20	V
Soldering temperature(time)	T _s (10s)	260	°C

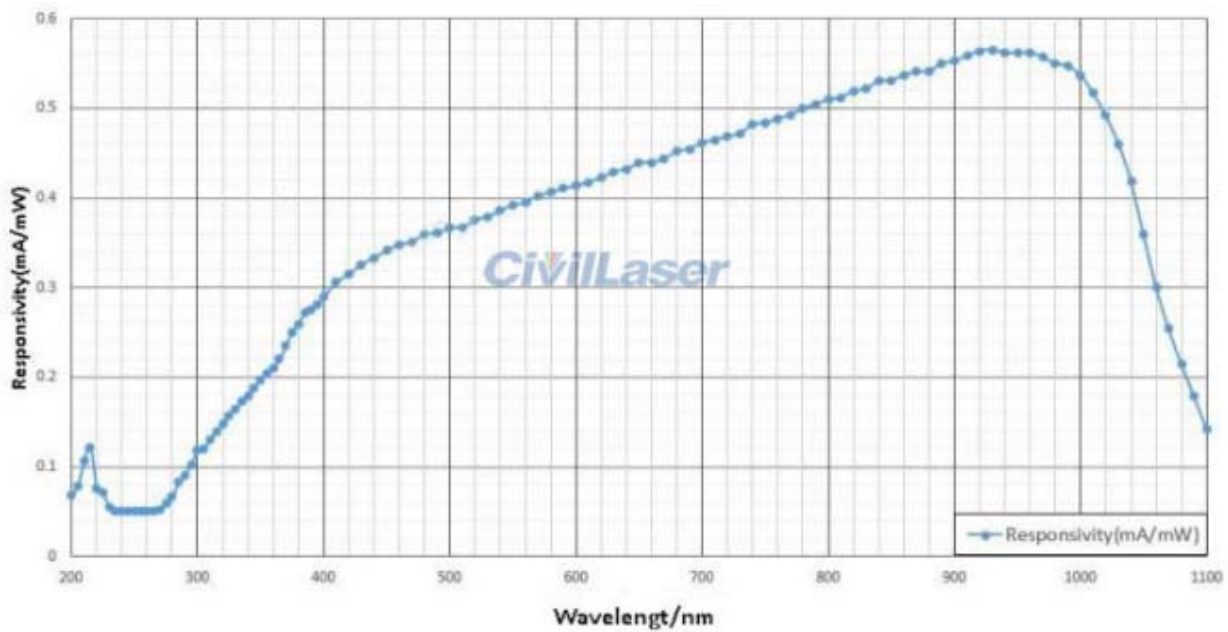
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	1.2x1.2
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	0.28
	Re(V _R =0V,λ=650nm)	mA/mW	0.43
	Re(V _R =0V,λ=905nm)	mA/mW	0.55
	Re(V _R =0V,λ=1064nm)	mA/mW	0.22
Response time	T _r (R _L =50Ω, V _R =5V)	ns	8
Dark current	I _d (V _R =0V)	pA	0.2

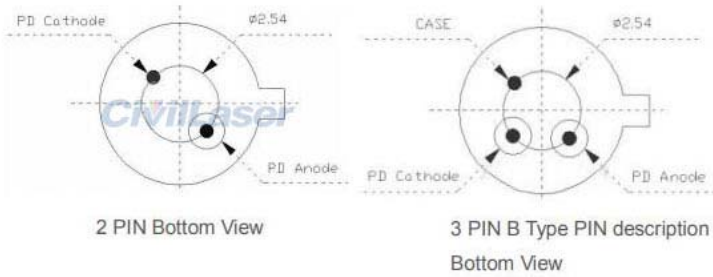
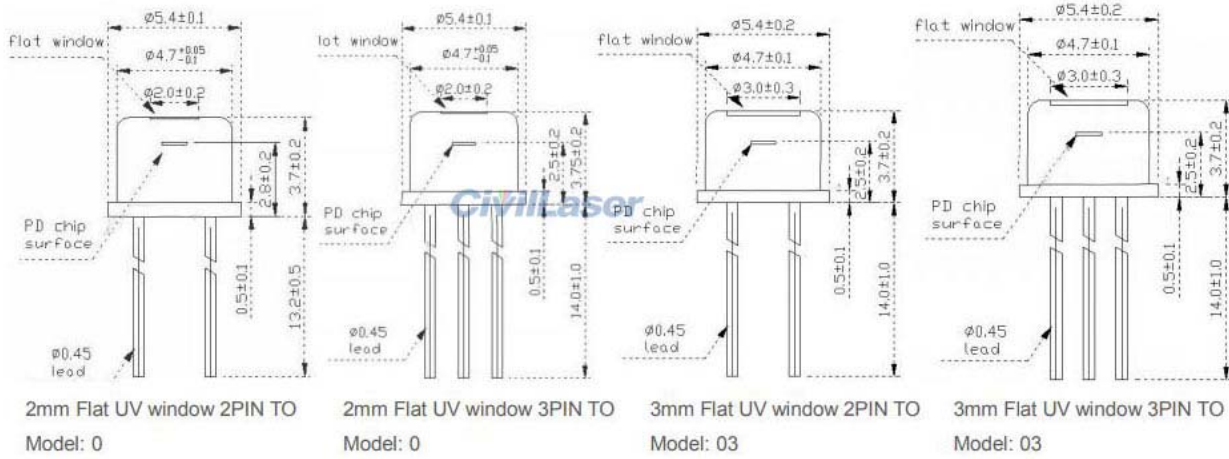
	$I_d(V_R=5V)$	pA	100
Reverse Breakdown voltage	$V_{BR}(I_R=10\mu A)$	V	40
Junction capacitance	$C_j(f=1MHz, V_R=0V)$	pF	190
	$C_j(f=1MHz, V_R=5V)$	pF	40
Saturated Optical Power	$P_s(V_R=5V)$	mW	15
Operating voltage	V_R	V	0-15
Shunt resistance	$R_{sh}(V_R=10mV)$	GΩ	50
package	Hermetic TO46 Can with UV window or with receptacle or fiber coupling		

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

The typical Responsivity curve



TO package and Lead



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

Order information

LSSPD-U1.2-X-X

X=2P 2 PIN out
X=3P 3 PIN out

X=0	TO-46 Can with 2mm UV window cap
X=03	TO-46 Can with 3mm UV window cap
X=SMFA/P	TO-46 Can with SM Fiber coupling with FC-APC/FC-PC connector
X=SMSA	TO-46 Can with SM Fiber coupling with SC-APC connector
X=5MMFA/P	TO-46 Can with 50um MM Fiber coupling with FC-APC/FC-PC 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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