

1mm UV Silicon PIN photodiode

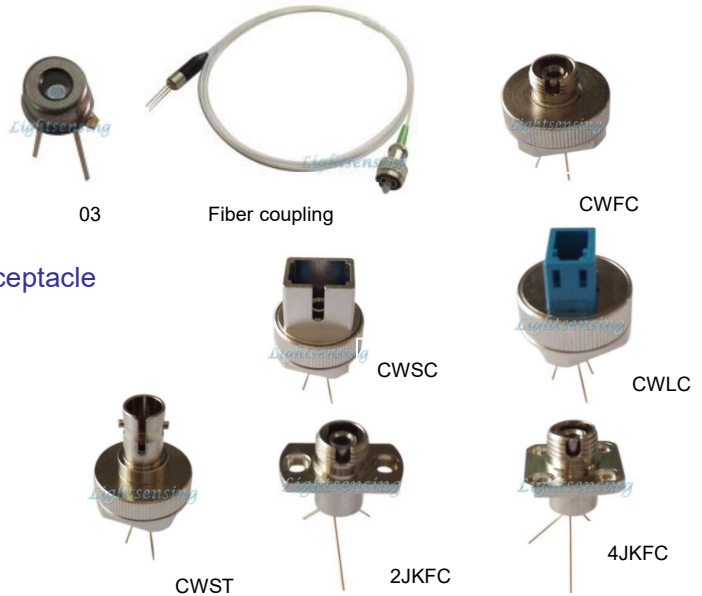
Model: LSSPD-U1

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	If	9	mA
Reverse voltage	Vr	20	V
Soldering temperature(time)	Ts (10s)	260	°C

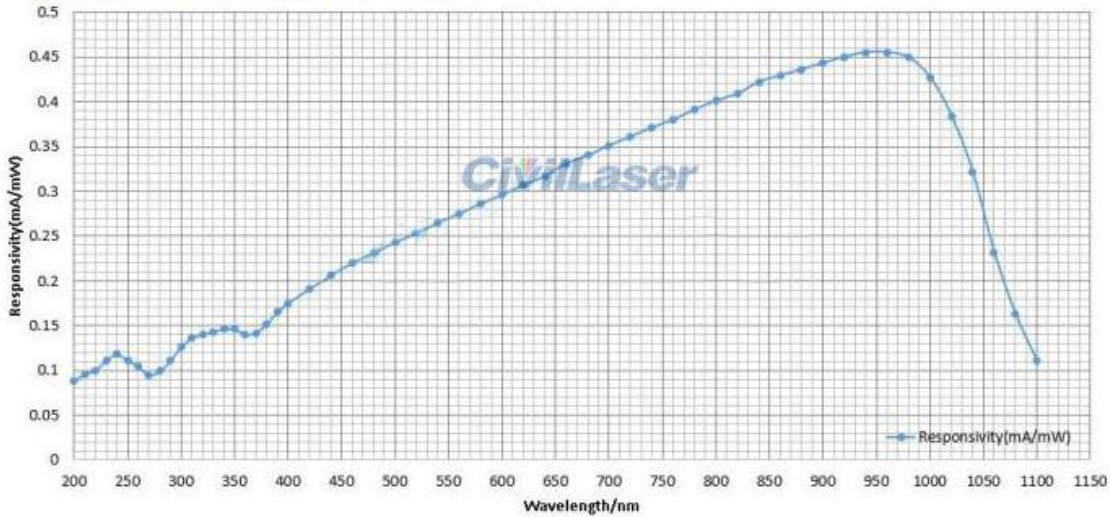
Electrical and optical characteristics:(T=25°C)

parameter	symbol	unit	Value (typ.)
Active diameter	Φ	mm	1x1
Spectral range	λ	nm	200-1100
Responsivity	Re(VR=0V,λ=200nm)	mA/mW	0.08
	Re(VR=0V,λ=405nm)	mA/mW	0.15
	Re(VR=0V,λ=650nm)	mA/mW	0.32
	Re(VR=0V,λ=905nm)	mA/mW	0.44
	Re(VR=0V,λ=1064nm)	mA/mW	0.27
Response time	Tr (RL=50Ω,VR=5V)	ns	0.6
Dark current	Id(VR=0V)	pA	0.2
	Id(VR=5V)	pA	20
Reverse Breakdown voltage	VBR (IR=10uA)	V	100
Junction capacitance	Cj (f=1MHz, VR=0V)	pF	33
	Cj (f=1MHz, VR=5V)	pF	4.5

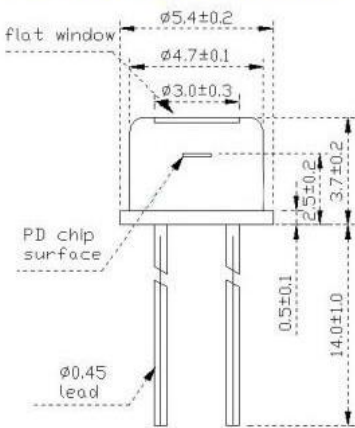
Saturated Optical Power	$P_s(V_R = 5V)$	mW	12
Operating voltage	V_R	V	0-15
Shunt resistance	$R_{sh}(V_R = 10mV)$	GΩ	50
package	Hermetic TO46 Can with UV window or with receptacle or fiber coupling		

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

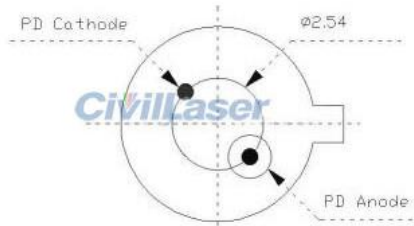
The typical Responsivity curve



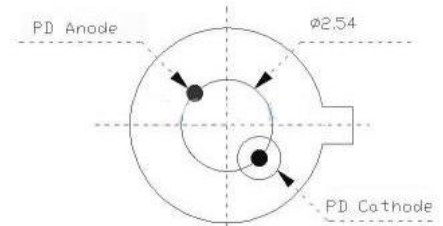
TO package and Lead



3mm Flat UV window 2PIN TO Model: 03



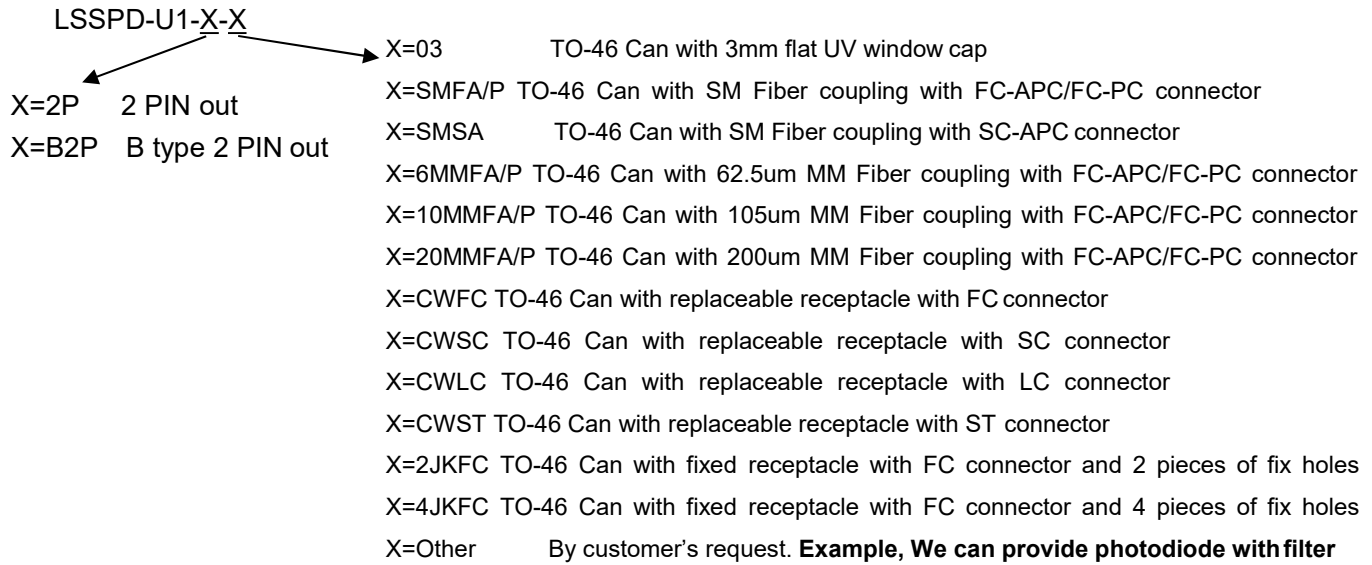
2 PIN Bottom View



B type 2 PIN Bottom View

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

Order information



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.