

1.5mm UVA GaN photodiode

Model: LSGPD-UVA1.5

V4.2UVPD-0081 23-01-01

1.Features

- Blindness to visible light without optical filter
- Wavelength 220-370nm, UVA Band Monitoring
- High reliability, low dark current
- Top illumination planar PD
- Active diameter 1.5mm
- Hermetic TO46 Can with flat UV window cap with receptacle

2.Applications

- UV sensors
- Spectroscopy
- UV exposure meters
- UV source monitors
- Medical engineering (dermatology)
- Sterilization Lamp Monitoring
- Space light detect equipment
- gas burner flame
- measurement and control of ecological parameters
- radiation control for a solarium
- UV water purification facilities

3.Picture

						
0	L0	L1	2JKFC	4JKFC		
						
CWFC	CWSC	CWLC	CWST			

4.The absolute values

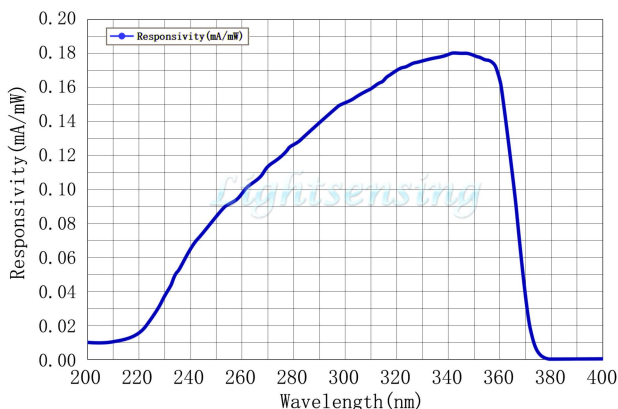
parameter	symbol	value	unit
Operating temperature	Top	-30~+80	°C
Storage temperature	Tstg	-40~+90	°C
Reverse voltage	Vr	2	V
Soldering temperature(time)	Ts (10s)	260	°C

5.The opto-eletronic characteristics (T=22±3°C)

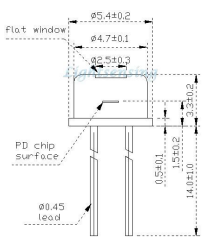
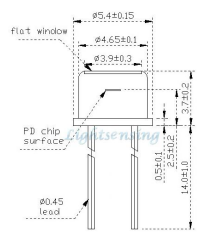
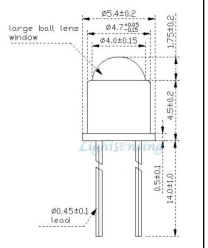
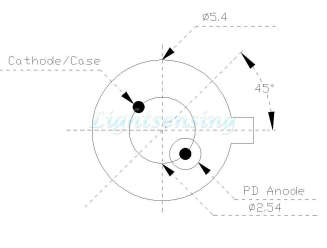
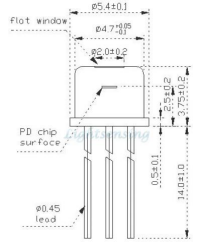
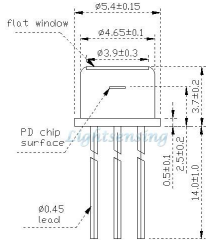
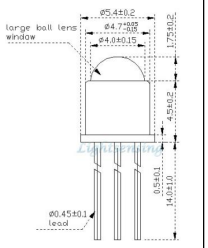
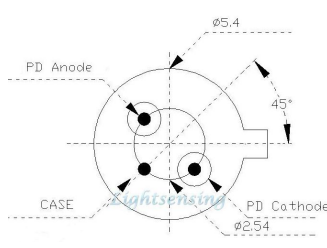
parameter	symbol	unit	Value (typ.)
Active diameter		mm	1.5x1.5
Spectral range	λ	nm	220-370(10% Rp)
Responsivity	Re (Vr=0V, λ =350nm)	mA/mW	0.18
Dark current	Id(Vr=0.1V)	nA	1.5
Reverse Breakdown voltage	V _{BR} (Id=10uA)	V	2
Total capacitance	Cj (f=1MHz, Vr=0V)	pF	60
Saturated optical Power	Ps(Vr=0.1V)	mW	5
Reverse operating voltage	Vr	V	0-0.1
Package	Hermetic TO46 Can with flat UV window cap or with receptacle		

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

The typical Responsivity curve



6. The package Dimensions and Lead

 <p>Flat window: $\phi 5.4 \pm 0.2$ $\phi 4.7 \pm 0.1$ $\phi 5.5 \pm 0.3$ PD chip surface $\phi 0.45$ lead 0.5 ± 0.1 1.5 ± 0.2 14.0 ± 1.0 3.2 ± 0.2</p>	 <p>Flat window: $\phi 5.4 \pm 0.15$ $\phi 4.65 \pm 0.1$ $\phi 3.9 \pm 0.3$ PD chip surface $\phi 0.45$ lead 0.5 ± 0.1 2.5 ± 0.2 14.0 ± 1.0 3.7 ± 0.3</p>	 <p>Flat window: $\phi 5.4 \pm 0.2$ $\phi 4.7 \pm 0.1$ $\phi 4.0 \pm 0.15$ large ball lens window $\phi 0.45 \pm 0.1$ lead 0.5 ± 0.1 1.5 ± 0.2 17.5 ± 0.2 14.0 ± 1.0 3.2 ± 0.2</p>	 <p>PD Cathode/Case $\phi 5.4$ 45° PD Anode $\phi 2.54$</p>	
0	L0	L1	2P PIN Bottom View	
 <p>Flat window: $\phi 5.4 \pm 0.1$ $\phi 4.7 \pm 0.1$ $\phi 5.0 \pm 0.2$ PD chip surface $\phi 0.45$ lead 0.5 ± 0.1 1.5 ± 0.2 14.0 ± 1.0 3.2 ± 0.2</p>	 <p>Flat window: $\phi 5.4 \pm 0.15$ $\phi 4.65 \pm 0.1$ $\phi 3.9 \pm 0.3$ PD chip surface $\phi 0.45$ lead 0.5 ± 0.1 2.5 ± 0.2 14.0 ± 1.0 3.7 ± 0.3</p>	 <p>Flat window: $\phi 5.4 \pm 0.2$ $\phi 4.7 \pm 0.1$ $\phi 4.0 \pm 0.15$ large ball lens window $\phi 0.45 \pm 0.1$ lead 0.5 ± 0.1 1.5 ± 0.2 17.5 ± 0.2 14.0 ± 1.0 3.2 ± 0.2</p>	 <p>PD Anode $\phi 5.4$ 45° CASE PD Cathode $\phi 2.54$</p>	
0	L0	L1	Type C PIN Bottom View	

Note: For more information on dimension, please contact us

7. Order information

TO46 Can product order information:LS=LightSensing				
LS	GPD	-UVA1.5	-2P	-0
	PD type	Active Area	PIN	Cap type
	GPD= GaN PD	1.5=1.5x1.5mm	2P=2 PIN C=Type C PIN Other	0=2.5mm flat UV glass window nickel-plated cap L0=3.9mm flat UV glass window nickel-plated cap L1=large ball UV glass lens nickel-plated cap Other
Receptacle product order information:LS=LightSensing				
LS	GPD	-UVA1.5	-2P	-2JKFC
	PD type	Active Area	PIN	Receptacle type
	GPD= GaN PD	1.5=1.5x1.5mm	2P=2 PIN C=Type C PIN Other	2JKFC=receptacle with FC connector and 2 mounting holes 4JKFC=receptacle with FC connector and 4 mounting holes CWFC=replaceable receptacle with FC connector CWSC=replaceable receptacle with SC connector CWLC=replaceable receptacle with LC connector CWST=replaceable receptacle with ST connector Other

8. 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.

