

## PARA LIGHT ELECTRONICS CO., LTD.

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# DATA SHEET

# PART NO.: LT3535UVC-K1PCA1-SCS

# REV: A / X

CUSTOMER'S APPROVAL: \_\_\_\_\_ DRAWING NO.: DS-31P-20-0028

DATE: 2020-04-17

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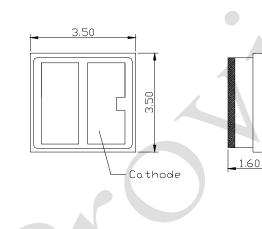
### Features

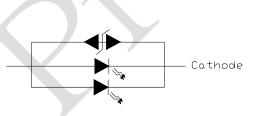
- \*SIZE: 3.5\*3.5\*1.6mm
- \*Suitable for all SMT assembly and solder process
- \* Available on tape and reel
- \* Moisture sensitivity level: Level 3
- \* RoHS compliant

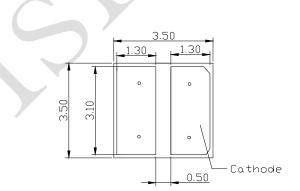
### Applications

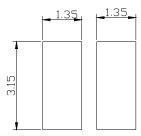
- \* Ultraviolet disinfection
- \* Phototherapy
- \* Bio- Analysis/ Detection
- \* General use

### Package Dimensions









Recommended Pad Design Drawings

#### Notes:

- 1. All dimensions are in millimeters.
- 2. Tolerance is  $\pm$  0.2mm unless otherwise noted

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### ■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Units	
Power Dissipation	PD	0.5	W	
Forward Current	IF	80	mA	
Reverse Voltage	VR	5	V	
Operating Temperature	Topr	-40~ +55	°C	
Storage Temperature	Tstg	-40 ~ +80	°C	
Junction Temperature	Tj	90	Ĉ	
Thermal Resistance	Rthj-s	15	K/W	

Notes:

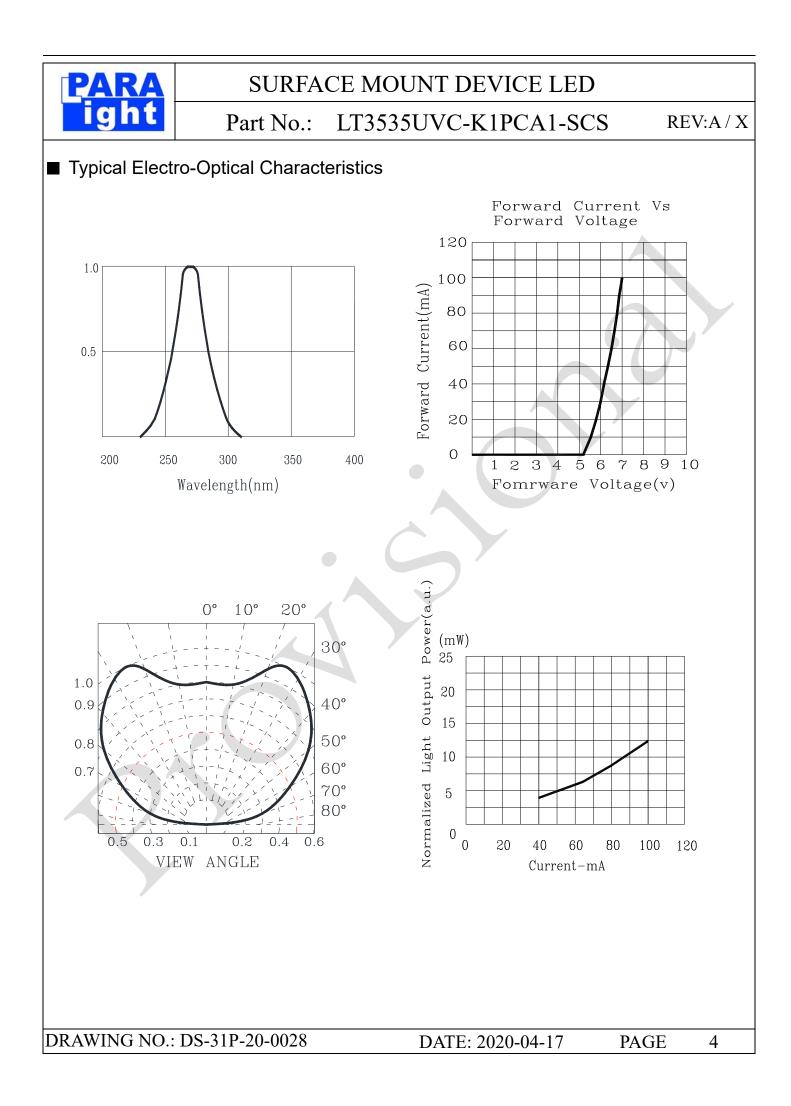
1. 1/10 duty cycle o.1 ms pulse width

2. The above forward voltage measurement allowance tolerance is  $\pm 0.1 V$ 

3. ESD<2000V

### ■ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

Parameter	Symbol	TEST	in	Тур	Max.	Unit
Reverse Current	IR	VR=5V			5	μA
Forward Voltage	VF	IF=80mA		6.0		V
Total Radiant Flux	Φ <b>e</b>	IF=80mA		8		mW
Peak wavelength	λр	IF=80mA		275		nm
Spectral Line Half - Width	Δλ	IF=80mA		10		nm
Half Intensity Angle	201/2	IF=80mA		120		deg



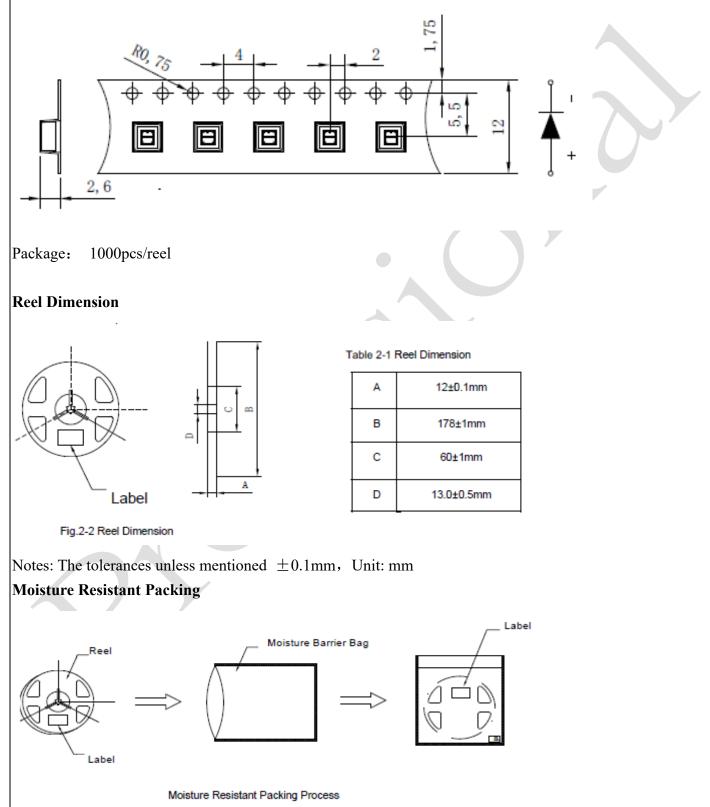


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## Packaging

Carrier tape dimension



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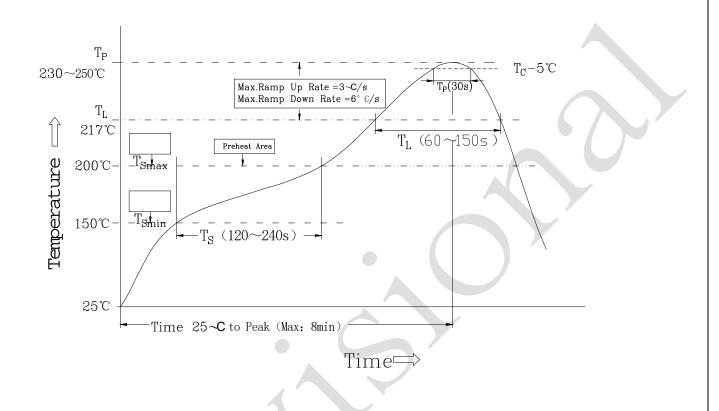
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#### SMT Reflow Soldering Instructions



#### Notes:

- 1. Reflow soldering should not be done more than two times. If more than 24 hours between the two soldering, LED will be damaged.
- 2. When soldering, do not put stress on the LEDS during heating.

#### Soldering ron

- 1. When do soldering by hand, keep the temperature of iron below less 300C less than 3 seconds
- 2. Soldering by hand should be done only one time

#### Repairing

Repairing should not be done after the LEDS have been soldered. When repairing is unavoidable, suitable tools must be used.

It should be confirmed in advance whether the characteristics of LEDS will or not be damaged by repairing.

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#### Cautions

1. 1. The encapsulated material of the LEDS is silicone. Therefore the LEDS have a soft surface on the top of package. The pressure to the top surface will be impacted on the reliability of the LEDS. Precautions should be taken to avoid the strong pressure on the encapsulated part. So when use the picking up nozzle, the pressure on the silicone resin should be proper.

2. Components should not be mounted on warped(non co plane)portion of PCB.After soldering,do not warp the circuit board.

3. Do not apply mechanical force or excess vibration during the cooling process to normal temperature after soldering. Do not rapidly cool device after soldering.

#### Handling Precautions

Handle the component along the side surface by using forceps or appropriate tools; Do not directly touch or Handle the silicone lens surface, it may damage the internal circuitry.

#### Conditions Temperature Humidity Time Before Opening Aluminum Bag Within 1 Year From Date ≤30°C ≤75% Storage ≤30°C ≤60% 24hours After Opening Aluminum Bag 60±5°C Baking ≥24hours

#### **Storage**

#### Notes

1. If the moisture absorbent material(silica gel) has faded away or the LEDS have exceeded the storage time, baking treatment should be performed after unpacking and based on the following condition( $65\pm5$ )<sup>°</sup>C for above 24 hours.

2. If the package is flatulence or damaged, please notify the sales staff to assist.

3. Similar to most Solid state devices; LEDS are sensitive to Electric-Static Discharge (ESD) and Electrical Over Stress (EOS).

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## • PART NO. SYSTEM :

