

**Operating Temperature** 

Lead Solder Temperature

Lead Solder Temperature

[5mm Below Package Base]

[2mm Below Package Base]

Storage Temperature

 $\lambda \; D$ 

 $\Delta\lambda$ 

С

470

25

100

nm

nm

 $\mathbf{pF}$ 

Emission (Typ.)

Spectral Line Full Width

At Half-Maximum (Typ.)

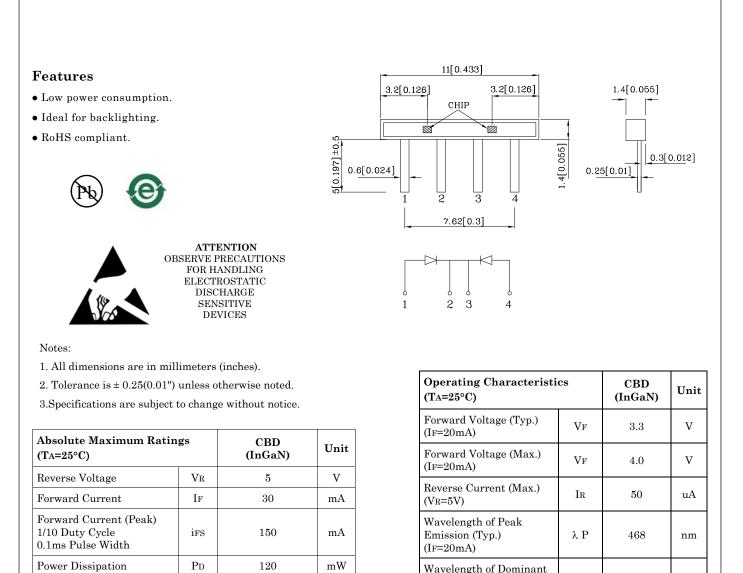
Capacitance (Typ.)

(VF=0V, f=1MHz)

(IF=20mA)

(IF=20mA)

11mm x 1.4mm SIDE VIEW



| Part<br>Number   | Emitting<br>Color | Emitting<br>Material | Lens-color    | Luminous<br>Intensity<br>(IF=20mA)<br>mcd |      | Wavelength<br>nm<br>λ P | Viewing<br>Angle<br>2 0 1/2 |
|------------------|-------------------|----------------------|---------------|---|------|-------------------------|-----------------------------|
|                  |                   |                      |               | min.                                      | typ. |                         |                             |
| XZCBD66S         | Blue              | InGaN                | Water Clear   | 70  | 128  | 468                     | 120°                        |
| Published Date : | 0.077 14 0010     | D                    | No : XDSB5298 | V1  |      | d : B.L.LIU             | P.1/5                       |

 $-40 \sim +85$ 

 $-40 \sim +85$ 

260°C For 3 Seconds

260°C For 5 Seconds

°C

 $\mathbf{T}\mathbf{A}$ 

Tstg



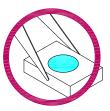
11mm x 1.4mm SIDE VIEW

## D66S EW

## **Handling Precautions**

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

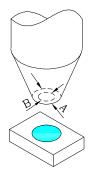


3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



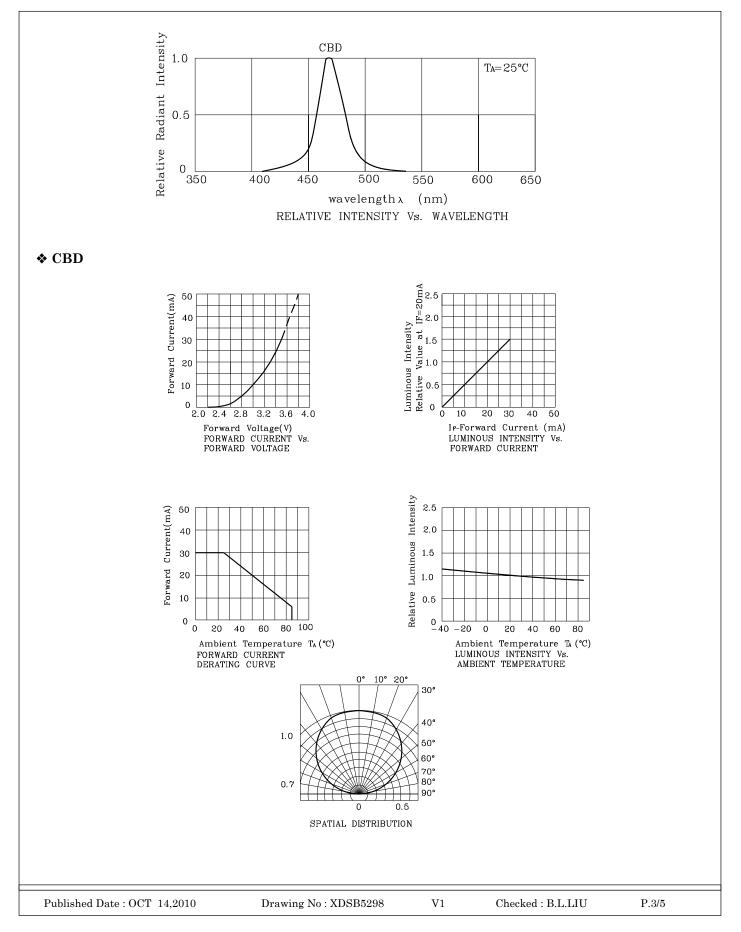
4. The outer diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.

5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.

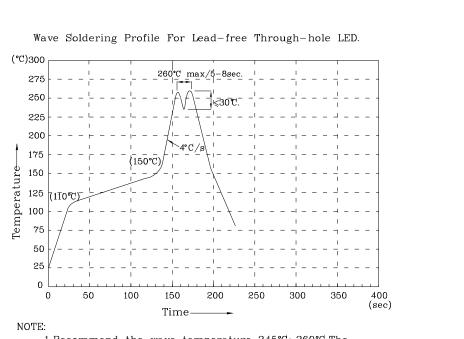




11mm x 1.4mm SIDE VIEW







 Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
Do not apply stress on epoxy resins when temperature is over 85 degree°C.
The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
No more than once.

## Remarks:

 $If special \ sorting \ is \ required \ (e.g. \ binning \ based \ on \ forward \ voltage, \ luminous \ intensity \ / \ luminous \ flux \ or \ wavelength),$ 

the typical accuracy of the sorting process is as follows:  $% \label{eq:constraint}$ 

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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11mm x 1.4mm SIDE VIEW

