



# Snowdragon Industrial Co.,Ltd

## DATA SHEET

MODEL No : **SD580WWCX**

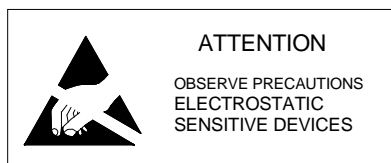
ENG. No:

Description:

- 5mm Warm white
- Blue (Water clear)
- 100 mA
- Viewing angle: 80-85°

**Chip GalnN**

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		





## Features

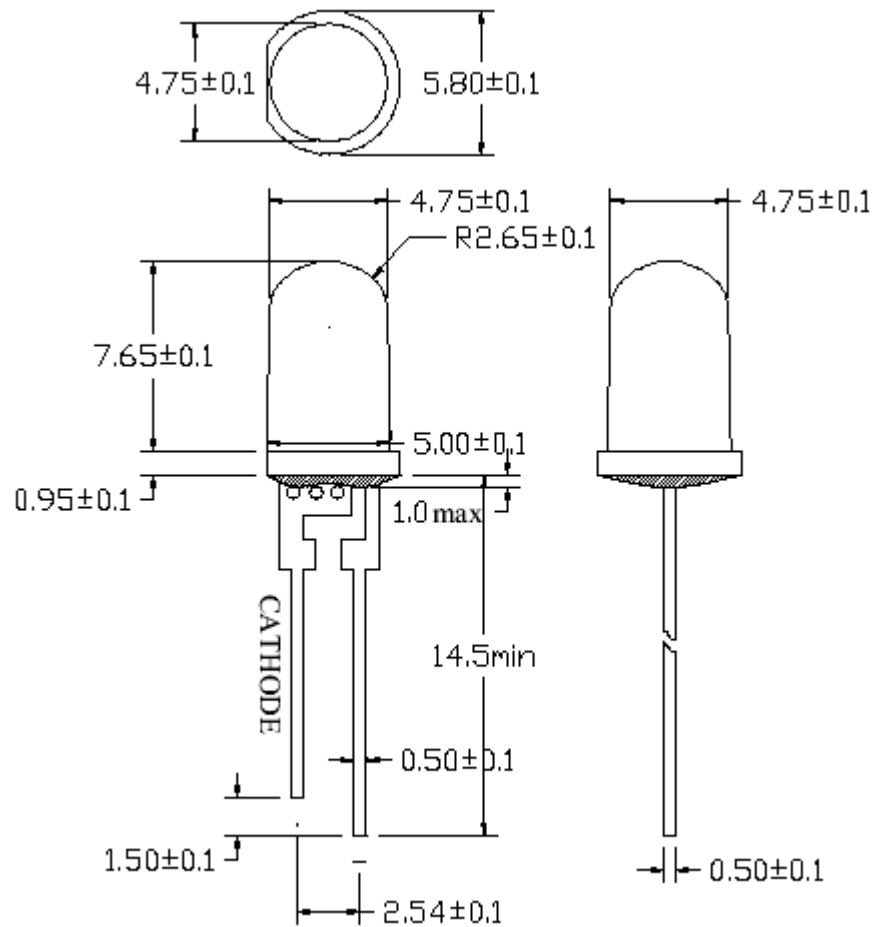
- Single color
- High bright output
- Medium power consumption
- High reliability and long life

## Descriptions:

- Dice material : GaInN
- Emitting Color : Super Bright White
- Device Outline:  
     $\phi$  5mm Round Type/5mm
- Lens Type : Water Clear.

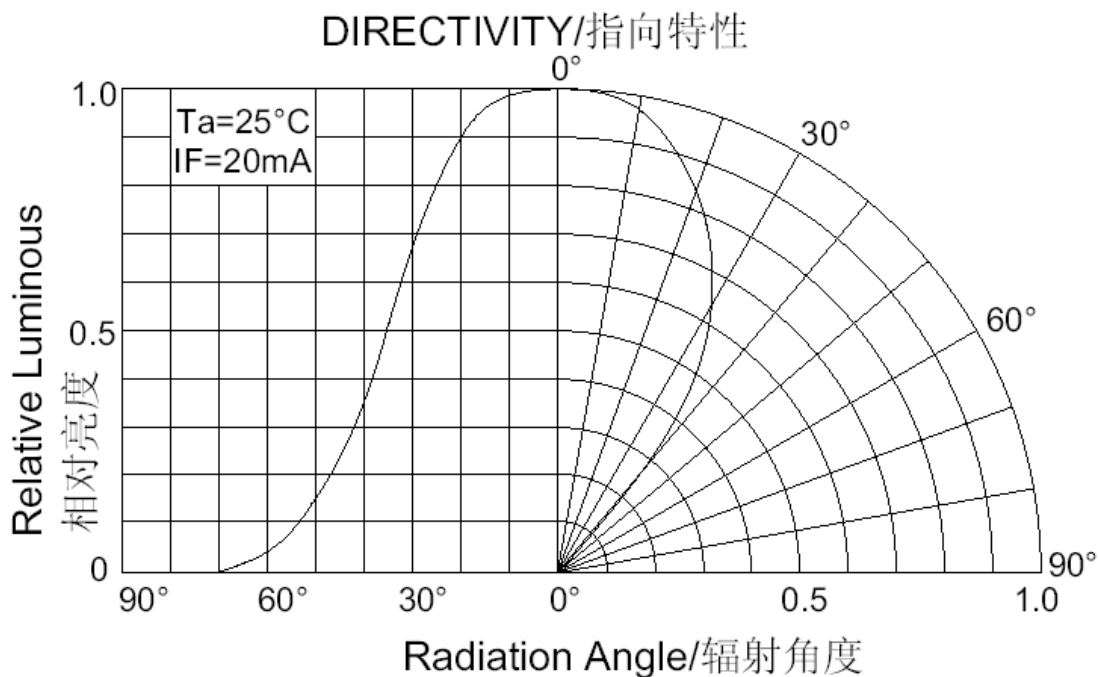


## Dimension Drawing



### Notes:

1. All dimensions are in mm, Tolerance is  $\pm 0.25$  mm unless others noted
2. An epoxy meniscus may extend about 1.5 mm
3. Burr around bottom of epoxy may be 0.5 mm max.



**Absolute maximum ratings/极限参数 (Ta = 25°C)**

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值		Unit 单位
			Min.	Max.	
Reverse Voltage 反向电压	V <sub>R</sub>	I <sub>R</sub> = 30 μA	5	--	V
Forward Current 正向工作电流	I <sub>F</sub>	----	----	120	mA
Power Dissipation 损耗功率	P <sub>d</sub>	----	----	4.8	W
Pulse Current 正向峰值电流	I <sub>peak</sub>	Duty=0.1mS, 1kHz	----	200	mA
Operating Temperature 工作温度范围	T <sub>opr</sub>	----	-20	+85	°C
Storage Temperature 储存温度范围	T <sub>str</sub>	----	-25	+100	°C



**Electrical and optical characteristics / 光电参数 (Ta = 25°C)**

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 数值			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	V <sub>F</sub>	I <sub>F</sub> = 100mA	----	3.5	4.0	V
Reverse Current 反向电流	I <sub>R</sub>	V <sub>R</sub> = 5V	----	----	30	μ A
Luminous Flux 发光强度	Φ <sub>v</sub>	I <sub>F</sub> = 100mA	7.8	15	-	lm
Viewing Angle 指向角度	2 θ 1/2	I <sub>F</sub> = 100mA	70	----	90	Deg.
Chromaticity Coordinates 色度坐标	X,Y	I <sub>F</sub> = 100mA	-----			--

**Color Temperature Bins Char/色温分档 (Ta = 25°C)**

Bin	WP0	WP1	WP2	WP3	WP4
CCT	<2500	2500~2800	2800~3000	3000~3300	3300~3600
Bin	WP5	WP6	WP7	WP8	WP9
CCT	3600~4000	4000~4500	4500~5000	5000~6000	>6000

**Typical electrical/optical characteristic curves/光电特性曲线:**

Fig.1 正向电流 Vs. 正向电压

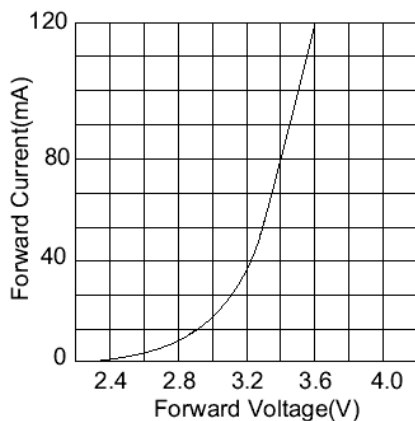


Fig.2 相对亮度 Vs. 正向电流

