

**SPECIFICATION FOR LED LAMP**

MODEL No : WCN-301WW1-30N

DOC. No : LED-301WW1-30N

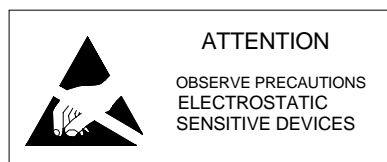
Description:

30 Degree 3mm LED Lamp in White  
Color without Stopper, Water Clear  
Lens

Dice Material: InGaN

Confirmed  
by Customer: \_\_\_\_\_

Date: \_\_\_\_\_



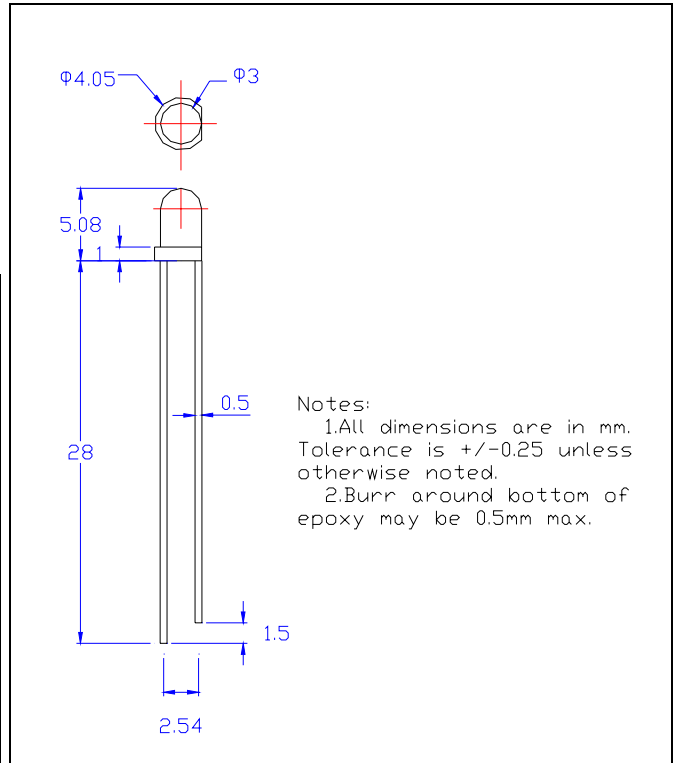
**Applications:**

- Advertising Signs
- Indicators
- LCD Back Light
- Illuminations

**Absolute Maximum Ratings at Ta = 25°C**

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	$I_F$	20	mA
Peak Forward Current*	$I_{FP}$	90	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	72	mW
Operation Temperature	$T_{opr}$	-30 ~ + 80	°C
Storage Temperature	$T_{stg}$	-40 ~ + 80	°C
Lead Soldering Temperature	$T_{sol}$	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

pulse width  $\leq 0.1\text{msec}$  duty  $\leq 1/10$

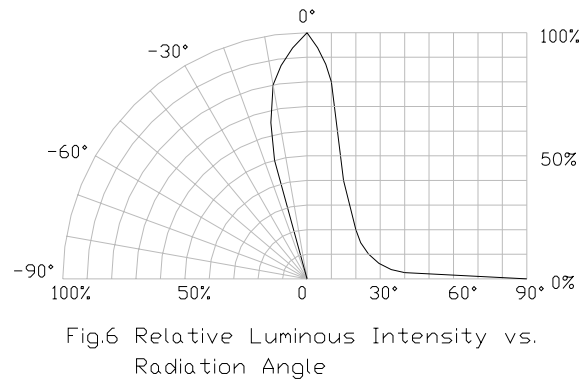
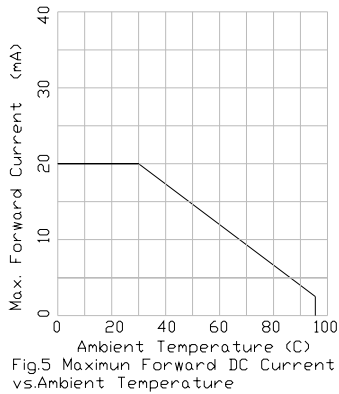
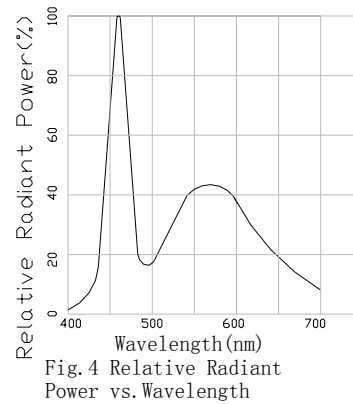
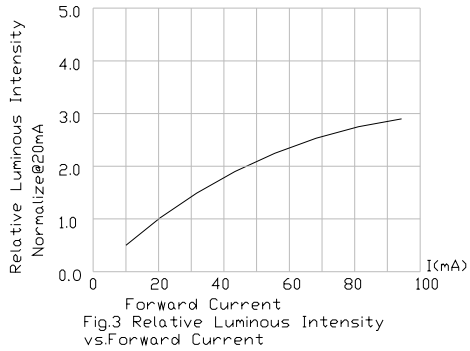
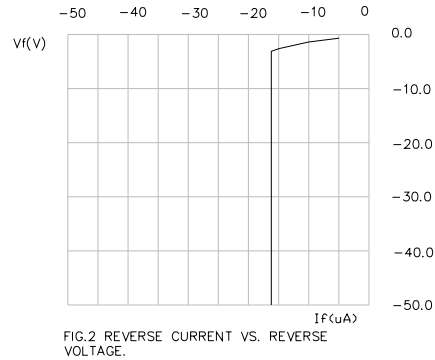
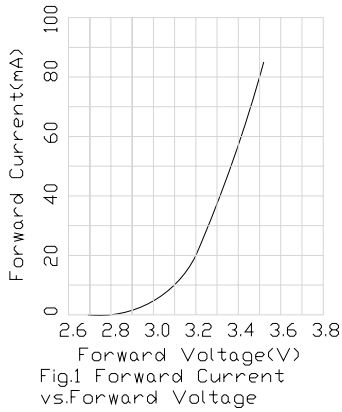
**Dimension Drawing**

**Typical Electrical & Optical Characteristics ( Ta = 25°C)**

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$		3.2	3.6	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	---	---	50	A
Luminous Intensity	$I_v$	$I_F = 20\text{mA}$		5000	---	mcd
Chromaticity Coordinates	x	$I_F = 20\text{mA}$	---	0.31	---	
	y			0.32		
50% Power Angle	$2\theta_{1/2}$	$I_F = 20\text{mA}$	---	30	---	deg

**Important Notes:**

- 1) All ranks will be included per delivery, rank ratio will be determined by WCN.
- 2) Tolerance of measurement of luminous intensity is  $\pm 15\%$ .
- 3) Tolerance of measurement of the Color Coordinates is  $\pm 0.03$ .
- 4) Tolerance of measurement of  $V_f$  is  $\pm 0.05\text{V}$ .
- 5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- 6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Graphs



Items	Signatures	Date	Revision History	
Prepared by			DOC. No.	CHANGE DESCRIPTION
Checked by				
Approved by				
ECN#				

Data is subject to change without prior notice.