

SPECIFICATION FOR LED LAMP

MODEL No : WCN-301HR1-30N-1
DOC. No : LED-301HR1-30N-1

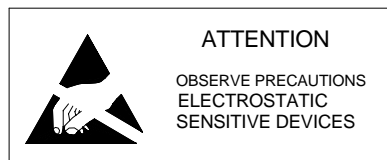
Description:

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

Dice Material: AllnGaP

Confirmed
by Customer: _____

Date: _____



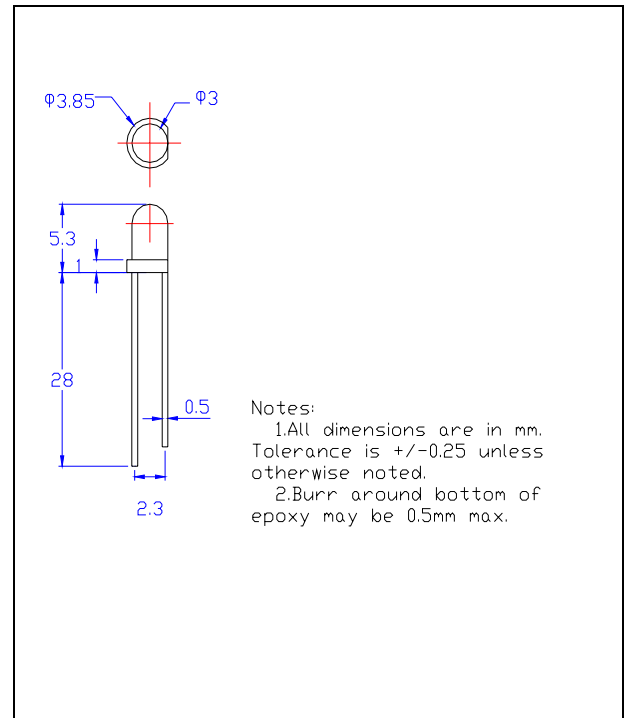
Applications:

- Advertising Signs
- Indicators
- Illumination
-

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	30	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	66	mW
Operation Temperature	T_{opr}	-40 ~ + 95	°C
Storage Temperature	T_{stg}	-40 ~ + 100	°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	$I_F = 20\text{mA}$	---	2.1	2.6	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	50	μA
Luminous Intensity	I_v	$I_F = 20\text{mA}$		1000	---	mcd
Dominant Wavelength	λ_d	$I_F = 20\text{mA}$		625		nm
Spectral Line Half-Width	$\Delta \lambda$	$I_F = 20\text{mA}$	---	25	---	nm
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 V_f is $\pm 0.05\text{ V}$.
- 4) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- 5) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Graphs

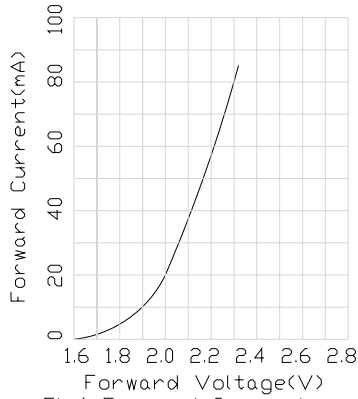


Fig.1 Forward Current vs. Forward Voltage

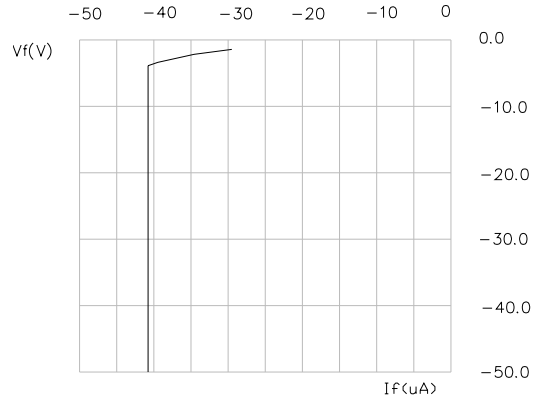


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

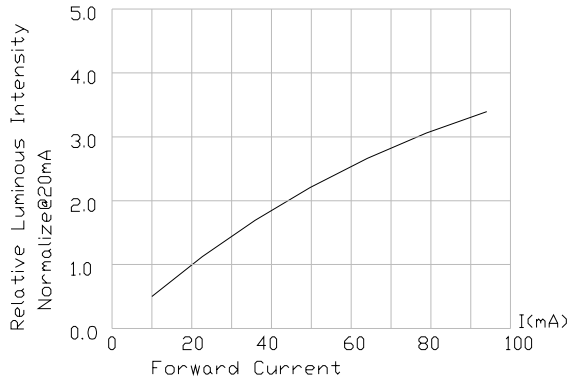


Fig.3 Relative Luminous Intensity vs. Forward Current

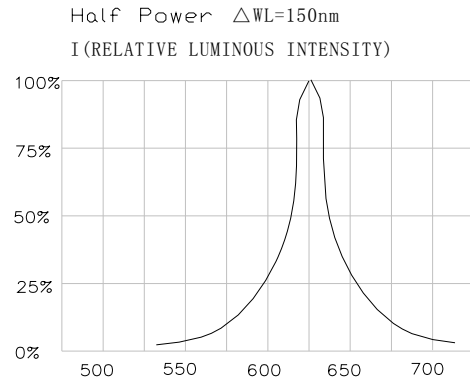


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

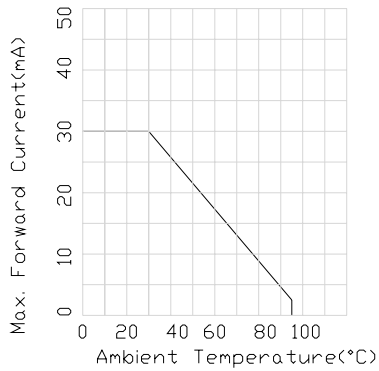
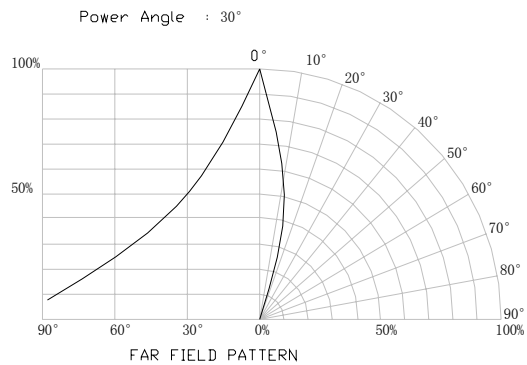


FIG.5 Maximum forward DC Current vs. Ambient Temperature



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

Data is subject to change without prior notice.