

DATA SHEET

MODEL No : LL1530QVYL1-301
DOC. No : LMS-15-144
Revision: 01

Description:
30 Degree 5mm Round LED Lamp in
Yellow Color with Water Clear Lens
and No Stopper

Dice Material: AlGaInP

Confirmed
by Customer: _____

Date: _____

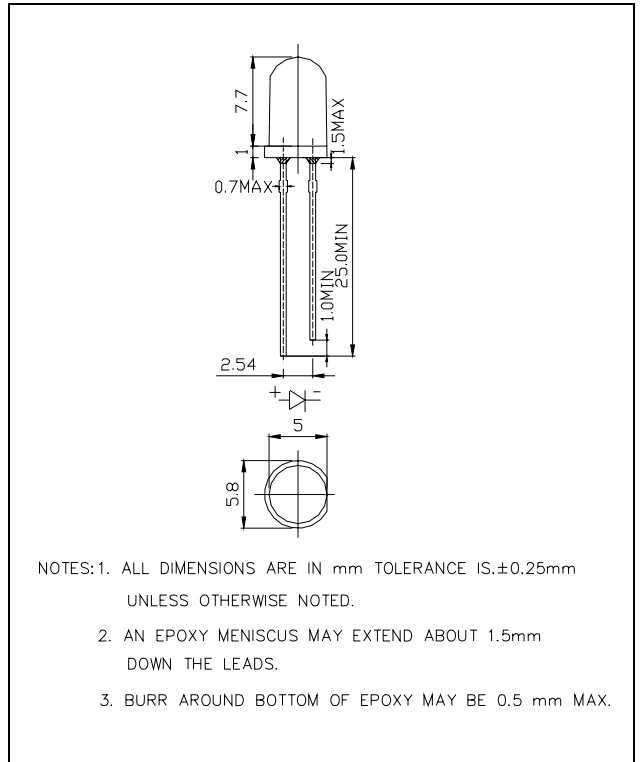
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Applications:

Dimension Drawing

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	50	mA
Peak Forward Current*	I_{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	130	mW
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 5 sec Max. (3mm from the base of the epoxy bulb)	



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

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.7	2.1	2.6	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	10	μA
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	---	591	---	nm
Luminous Intensity	I_V	$I_F = 20\text{mA}$	---	4000	---	mcd
50% Power Angle	$2\theta_{H-H}$	$I_F = 20\text{mA}$	---	30	---	deg
	$2\theta_{V-V}$	$I_F = 20\text{mA}$	---	--	---	deg

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by LEDMAN.
- 2) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 3) Tolerance of measurement of dominant wavelength is $\pm 1\text{nm}$.
- 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.

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Typical Optical-Electronic Characteristic Curves

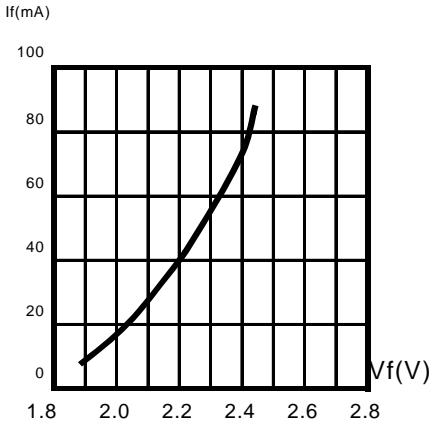


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

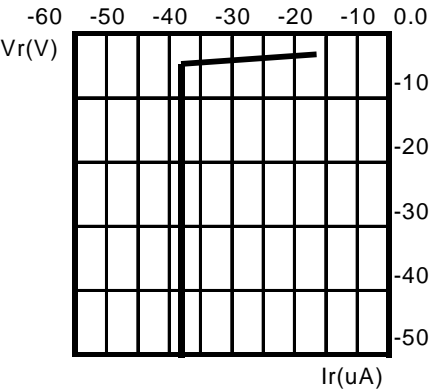


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

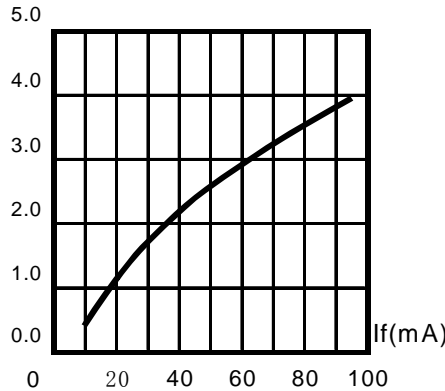
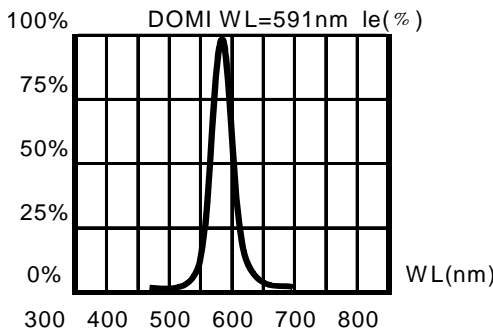


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.



INTENSITY VS. WAVELENGTH.

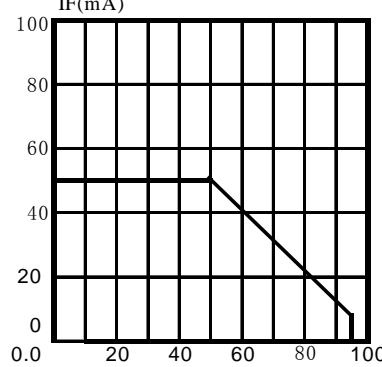


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE(Tjmax=105°C)

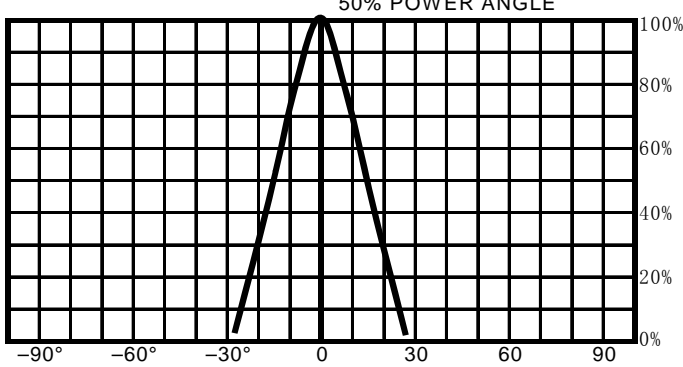


Fig.6 FAR FIELD PATTERN