COTCO LUMINANT DEVICE (HUIZHOU) LTD.

SPECIFICATION FOR COTCO LED LAMP

Document No: Model No : Rev. No: Date:	SPE/LC503AYL2-30Q-A LC503AYL2-30Q-A 04 2006-03-24
Description:	
•	Round LED Lamp in Amber Color ed Lens and No Stopper
Dice Material:	AlGalnP
Confirmed by Customer:	
Date:	
	RoMS





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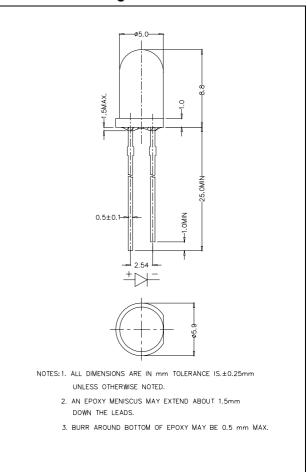
Applications:

- Advertising Signs
- Indicators
- Traffic
- Automotive Lighting

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current ^{*2}	I _F	50	mA
Peak Forward Current*1	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	Ŝ
Lead Soldering Temperature	T_{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	
Electrostatic Discharge			
Classification	ESD	Class 1	
(MIL-STD-883E)			

Dimension Drawing



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

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA		2.1	2.6	V
Reverse Current	I _R	V _R = 5V			100	μА
Dominant Wavelength	λ_{D}	I _F = 20mA	584	591	596	nm
Luminous Intensity	I _V	I _F = 20mA	3000	4500		mcd
50% Power Angle	20½H-H	I _F = 20mA		30		deg

^{*1} pulse width <=0.1msec duty <=1/10

^{*2} For long term performance the drive currents between 10mA and 30mA are recommended. Please contact COTCO sales representative for more information on recommended drive conditions.



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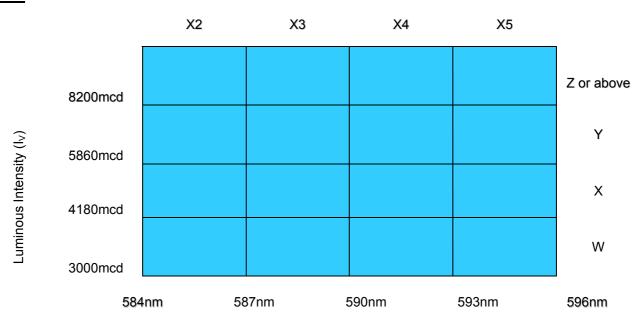
Standard bins for LC503AYL2-30Q-A ($I_F = 20mA$):

Lamps are sorted to Luminous Intensity $-I_V$ & Dominant Wavelength $-\lambda_D$ bins shown.

Orders for LC503AYL2-30Q-A may be filled with any or all bins contained as below.

All Luminous Intensity $-I_V$ & Dominant Wavelength $-\lambda_D$ values shown and specified are at If=20mA.





Dominant Wavelength (λ _D)

Important Notes:

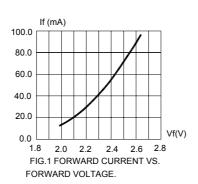
- 1) All ranks will be included per delivery, rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is ±15%.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.
- 6) Packaging methods are available for selection, Please refer to PACKAGING STANDARD.
- 7) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.
- 8) Please refer to APPLICATION NOTES for Application.

^{*} W+ indicates Luminous Intensity is at W bin or above.



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Graphs



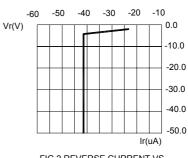
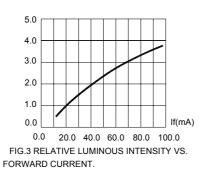
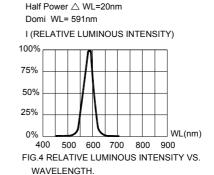
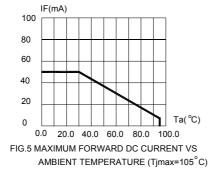
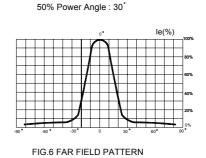


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.









Items	Signatures	Date
Prepared by	LiuZM	2006-03-24
Checked by	Aldosin	2006-03-24
Approved by	David	2006-03-24
FCN#	FCN20060077	

Revision History			
Rev. No	Date	Change Description	
В	31May04	Change IV, VF & λ_D Rank form.	
С	04Aug04	Add Notes. Change FIG.1&3&5	
04	2006-03-24	Cancel VF bin.	

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