SPECIFICATION FOR COTCO LED LAMP

Document No:	SPE/LC503PBL1-15Q-A3		
Model No :	LC503PBL1-15Q-A3		

Rev. No: 03

Date: 2006-03-31

Description:

15 Degree 5mm LED Lamp in Blue Color with Water Transparent Lens and No Stopper

Dice Material: InGaN

Confirmed by Customer:

Date:







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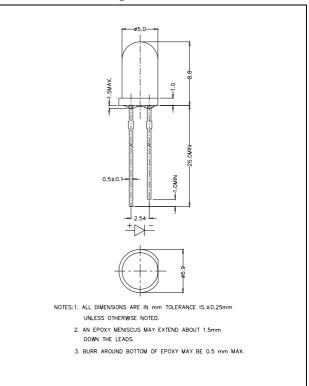
Applications:

- Advertising Signs
- Indicators
- LCD Back Light
- Moving Message Signs

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum	Unit
		Rating	
Forward Current	I _F	25	mA
Peak Forward Current*	I _{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	100	mW
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering	-	Max.260°C for 3 sec M	lax.
Temperature	T_{sol}	(3mm from the base of the epoxy bulk	

Dimension Drawing



Typical Electrical & Optical Characteristics ($Ta = 25^{\circ}C$)

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA		3.4	4.0	V
Reverse Current	I _R	V _R = 5V			100	μА
Dominant Wavelength	λ_{D}	I _F = 20mA	465	470	475	nm
Luminous Intensity	I _V	I _F = 20mA	1520	3800		mcd
50% Power Angle	20⅓H-H	I _F = 20mA		15		deg

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



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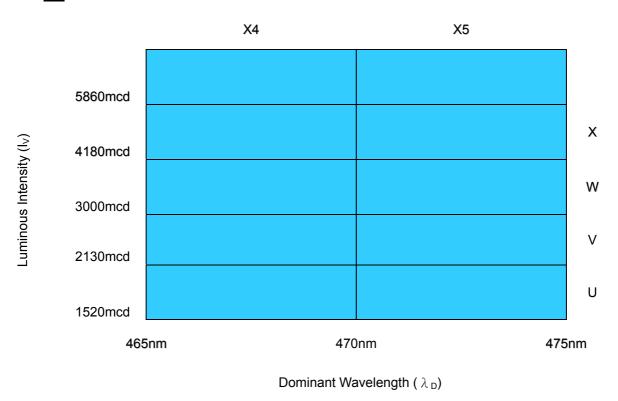
Standard bins for LC503PBL1-15Q-A3 ($I_F = 20mA$):

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

Orders for LC503PBL1-15Q-A3 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 I_F =20mA.





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

Important Notes:

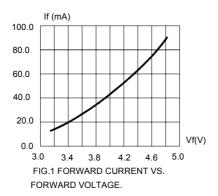
- 1) All ranks will be included per delivery, rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is ±15%.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.
- $6)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

REV.4



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Graphs



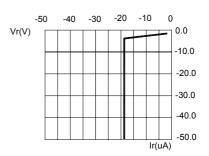
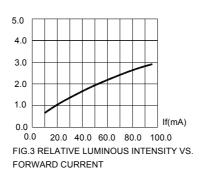


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.



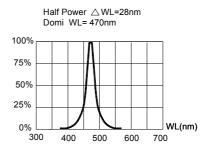
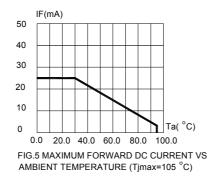
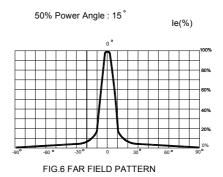


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.





Items	Signatures	Date
Prepared by	LiuZM	2006-03-31
Checked by	Aldosin	2006-03-31
Approved by	David	2006-03-31
FCN#	FCN20060081	

Revision History		
Rev. No	Date	Change Description
02	2005-07-05	Release. IV from W,X,Y(typ)5800 to U,V,W,X((typ)3800mcd.
03	2006-03-31	Cancel VF bin.

Data is subject to change without prior notice; please refer to COTCO Website for the latest version.

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