SPECIFICATION FOR COTCO LED LAMP

Document No:	SPE/LC503PBG1-30Q-A3
Model No:	LC503PBG1-30Q-A3

Rev. No: 03

Date: 2006-03-31

Description:

30 Degree 5mm LED Lamp in Bluish Green Color with Water Transparent Lens and No Stopper

Dice Material: InGaN

Confirmed		
by Customer:		
Date:		







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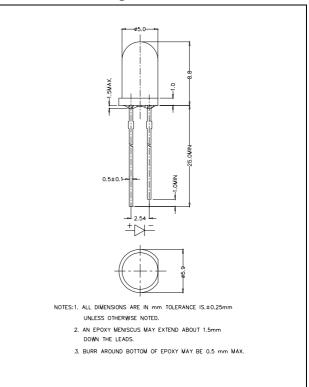
Applications:

- Advertising Signs
- Indicators
- Traffic

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	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	ç
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering	T _{sol}	Max.260°C for 3 sec Max.	
Temperature	30.	(3mm from the base of the epoxy bulb)	

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	500	505	510	nm
Luminous Intensity	I _V	I _F = 20mA	3000	4800		mcd
50% Power Angle	20⅓H-H	I _F = 20mA		30		deg

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



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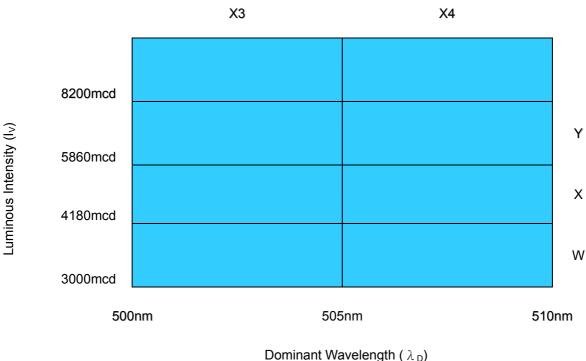
Standard bins for LC503PBG1-30Q-A3 ($I_F = 20mA$):

Lamps are sorted to Luminous Intensity –I $_{V}$ & Dominant Wavelength – λ_{D} bins shown.

Orders for LC503PBG1-30Q-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.





Dominant wavelength (A D)

Important Notes:

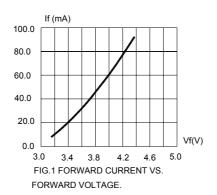
- 1) All ranks will be included per delivery, rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.
- 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.

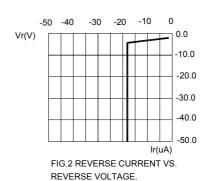
^{*} W+ indicates Luminous Intensity is at W bin or above.

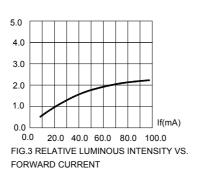


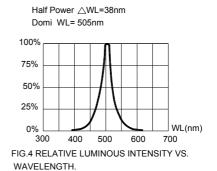
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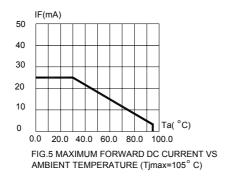
Graphs

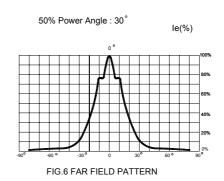












Items	Signatures	Date	
Prepared by	LiuZM	2006-03-31	
Checked by	Aldosin	2006-03-31	
Approved by	David	2006-03-31	
FCN#	FCN20060081		

Revision History		
Rev. No	Date	Change Description
02	2005-07-05	Release.
03	2006-03-31	Cancel VF bin.

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