SPECIFICATION FOR COTCO LED LAMP

Document No:	SPE/LC503TBG1-30H-A
Model No:	LC503TBG1-30H-A

Rev. No: 02

Date: 2005-05-18

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:

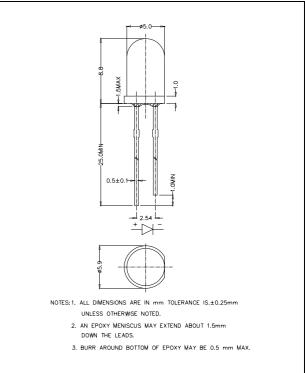
- Advertising Signs
- Indicators
- Traffic

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum	Unit	
itemo	Cymbol	Rating	Offic	
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 Max.		
Temperature	T_{sol}	(3mm from the base of the epoxy bulb)		

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

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
Forward Voltage	V _F	I _F = 1.0μA	1.7		2.5	V
Reverse Current	I _R	V _R = 5V			100	μΑ
Dominant Wavelength	λ_{D}	I _F = 20mA	500	505	510	nm
Luminous Intensity	I _V	I _F = 20mA	4180	7000		mcd
50% Power Angle	20½H-H	I _F = 20mA		27		deg



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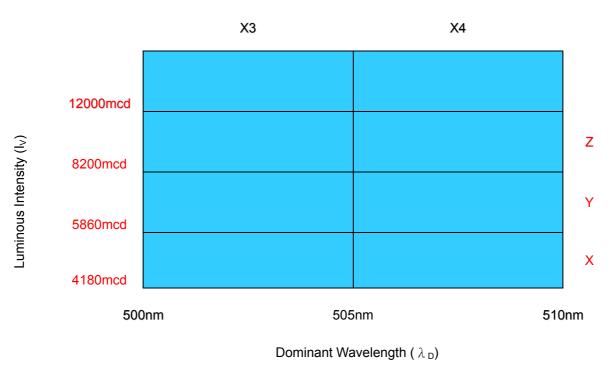
Standard bins for LC503TBG1-30H-A ($I_F = 20mA$):

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

Orders for LC503TBG1-30H-A may be filled with any or all bins contained as below.

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





Forward Voltage (V_F)

Rank	V6	V7	V8	V9	V10	V11	V12
Voltage	2.6-2.8V	2.8-3.0V	3.0-3.2V	3.2-3.4V	3.4-3.6V	3.6-3.8V	3.8-4.0V

Important Notes:

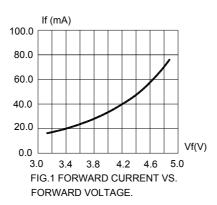
- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.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

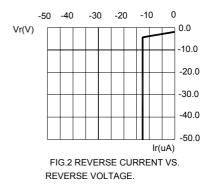
^{*} X+ indicates Luminous Intensity is at X bin or above.

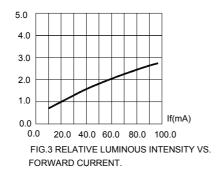


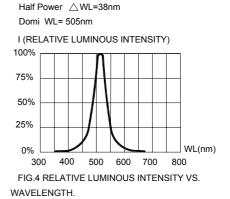
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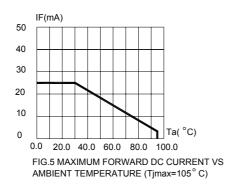
Graphs

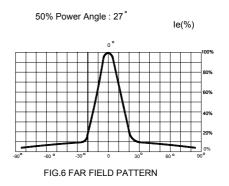












Items	Signatures	Date	
Prepared by	LiuZM	2005-05-18	
Checked by	Aldosin	2005-05-18	
Approved by	David	2005-05-18	
FCN#	FCN20050163		

Revision History			
Rev. No	Date	Change Description	
02	2005-05-18	Release. Change IV from Y,Z,Z1(typ)10000 to X,Y,Z(typ)7000mcd; 20½ from 30deg to 27deg.	

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