

Document No.	SPE/LC303PBL1-30Q-A3
Rev. No.	03

Applications:

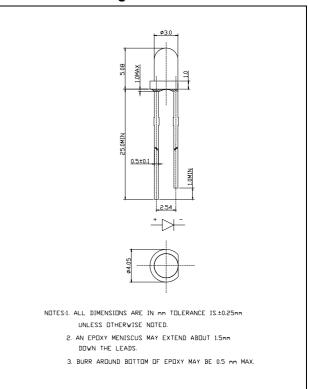
- Advertising Signs
- Indicators

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
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 Temperature	T _{sol}	Max.260°C for 3 sec Max. (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
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	550	1200		mcd
50% Power Angle	20½H-H	I _F = 20mA		30		deg



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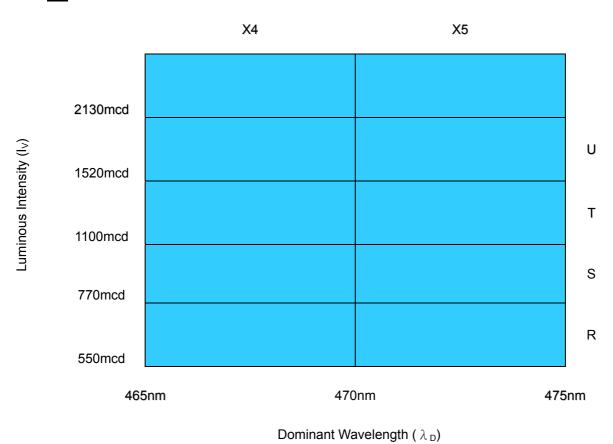
Standard bins for LC303PBL1-30Q-A3 ($I_F = 20mA$):

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

Orders for LC303PBL1-30Q-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.





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

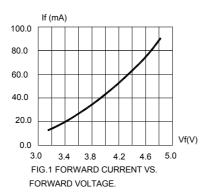
Important Notes:

- 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.



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Graphs



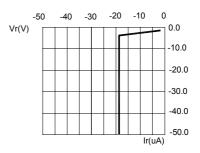
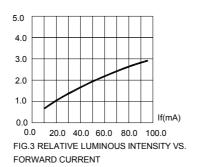


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.



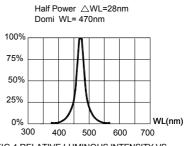
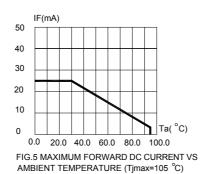
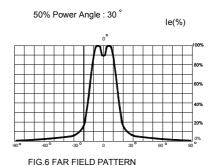


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.





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

Revision History			
Rev. No	Date	Change Description	
02	2005-07-19	Release.	
03	2006-03-24	Cancel VF bin.	

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