# COTCO LUMINANT DEVICE (HUIZHOU) LTD.

## SPECIFICATION FOR COTCO LED LAMP

Document No: Model No : Rev. No: Date:	SPE/LC534TBL1-60Q-A LC534TBL1-60Q-A 02 2006-10-17		
Description:			
60 Degree 5mm Round LED Lamp in Blue Color with Water Transparent Lens and No Stopper			
Dice Material:	InGaN		
Confirmed by Customer:			
Date:			







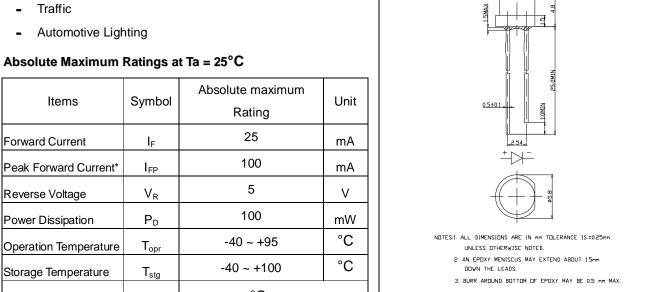
Document No.	SPE/LC534TBL1-60Q-A
Rev. No.	02

**Dimension Drawing** 

## Applications:

- Advertising Signs
- Indicators

Items	Symbol	Absolute maximum  Rating	Unit
		rating	
Forward Current	I <sub>F</sub>	25	mA
Peak Forward Current*	I <sub>FP</sub>	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	$T_{sol}$	Max.260°C for 3 sec Max.	
Temperature		,	,,



<sup>\*</sup> pulse width <=0.1msec duty <=1/10

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

<u> </u>		•	•			
Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA		3.4	4.0	V
Forward Voltage	V <sub>F</sub>	$I_F = 1.0 \mu A$	1.7		2.5	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V			100	μΑ
Dominant Wavelength	$\lambda_{D}$	I <sub>F</sub> = 20mA	465	470	475	nm
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	280	600		mcd
50% Power Angle	2 <del>0</del> ½H-H	I <sub>F</sub> = 20mA		60		deg



Document No.	SPE/LC534TBL1-60Q-A
Rev. No.	02

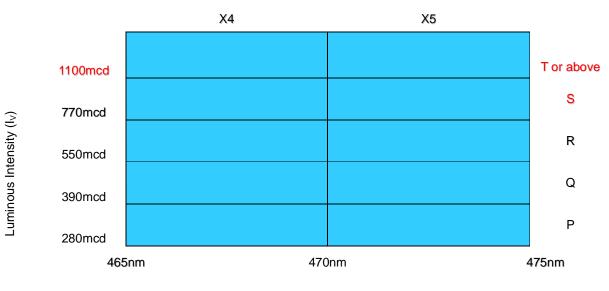
#### Standard bins for LC534TBL1-60Q-A ( $I_F = 20mA$ ):

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

Orders for LC534TBL1-60Q-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 (  $\lambda$  <sub>D</sub>)

#### **Important Notes:**

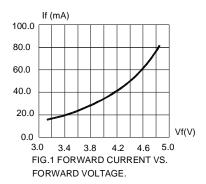
- 1) All ranks will be included per delivery, rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is  $\pm 15\%$ .
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is  $\pm 0.05$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

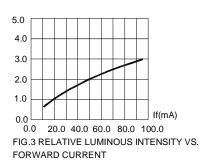
<sup>\*</sup> P+ indicates Luminous Intensity is at P bin or above.

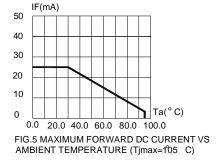


Document No.	SPE/LC534TBL1-60Q-A
Rev. No.	02

## **Graphs**







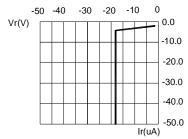
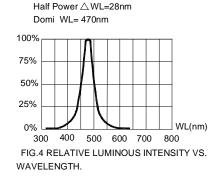
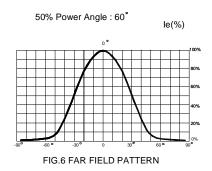


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.





Items	Signatures	Date	
Prepared by	LiuZM	2006-10-17	
Checked by	Aldosin	2006-10-17	
Approved by	David	2006-10-17	
FCN#	FCN200	60335	

Revision History		
Rev. No	Date	Change Description
02	2006-10-17	Release. IV from P,Q,R(typ)480 to P,Q,R,S(typ)600mcd

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