

COTCO LUMINANT DEVICE (HUIZHOU) LTD.

SPECIFICATION FOR COTCO LED LAMP

Document No: SPE/LO566UYL4-70H-A3-MT Model No: LO566UYL4-70H-A3-MT

Rev. No: 00

Date: 2007-10-11

Description:

70 Degree 5mm Oval LED Lamp in Amber Color with Tinted Diffused Lens and No Stopper

*This specification is only for MT Dice Material: AlGaInP

Confirmed		
By Customer:		

Date:









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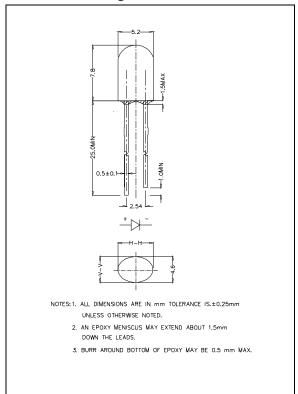
Applications:

- Full Color Display

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum	Unit
		Rating	
Forward Current ^{*2}	I _F	50	mA
Peak Forward Current ^{*1}	I _{FP}	200	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_{D}	130	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)	
Electrostatic Discharge Classification (MIL-STD-883E)	ESD	Class II	

Dimension Drawing



Typical Electrical & Optical Characteristics (Ta = 25°C)

Typical Electrical a Optical Characteriotics (14 - 25 C)						
Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F}	I _F = 20mA		2.1	2.6	V
Reverse Current	I _R	V _R = 5V			100	μΑ
Dominant Wavelength	λ_{D}	I _F = 20mA	584	591	596	nm
Luminous Intensity	I _V	I _F = 20mA	770	1600		mcd
50% Power Angle	20½ H-H	I _F = 20mA		70		deg
Joo 70 T OWEI Allgie	2 0 ½ V-V	I _F = 20mA		40		deg

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

^{*2} For long term performance the drive currents between 10mA and 30mA are recommended. Please contact COTCO sales representative for more information on recommended drive conditions.



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Standard bins for LO566UYL4-70H-A3-MT ($I_F = 20mA$):

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

Orders for LO566UYL4-70H-A3-MT 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 (λ_D)

Forward Voltage (V_F)

Rank	V1	V2	V3	V4	V5
Voltage	1.6-1.8 V	1.8-2.0 V	2.0-2.2 V	2.2-2.4 V	2.4-2.6 V

Important Notes:

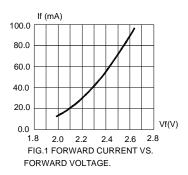
- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is ±15%.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.
- 6) Packaging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

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



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Graphs



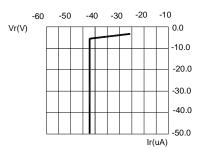
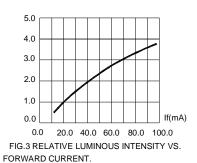
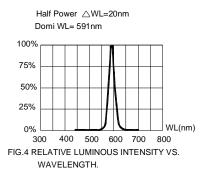
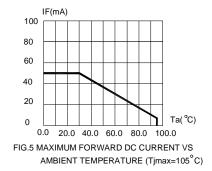
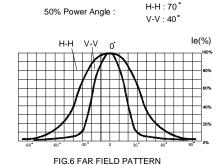


FIG.2 REVERSE CURRENT VS.
REVERSE VOLTAGE.









- 1. Cathode PAD Area (0.18 X 0.18inch²)
- 2. Height above nominal seating plane in inches(0.3inch)

Items	Items Signatures		
Prepared by	LiuYin	2007-10-11	
Checked by	MaJF	2007-10-11	
Approved by	David	2007-10-11	
FCN#	FCN20070		

Revision History			
Rev. No	Date	Change Description	

Data is subject to change without prior notice.

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