SPECIFICATION FOR COTCO LED LAMP

Document No: SPE/LO566PYO2-65H-A-MT

Model No: LO566PYO2-65H-A-MT

Rev. No: 01

Date: 2006-12-06

Description:

65 Degree 5mm Oval LED Lamp in Yellow Orange Color with White Diffused Lens and No Stopper

*This specification is only for MT

Dice Material: AlGaInP

Confirmed		
by Customer:		
Date:		









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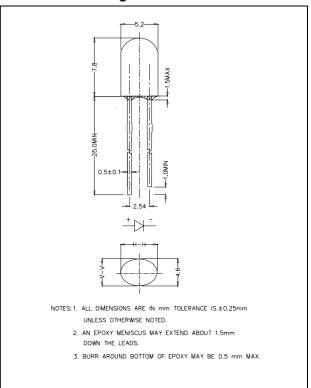
Applications:

- Variable Message Signs
- Message Board

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
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}	125	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)	

Dimension Drawing



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

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA		2.0	2.5	V
Reverse Current	I _R	V _R = 5V			100	μА
Dominant Wavelength	λ_{D}	I _F = 20mA	600	605	609	nm
Luminous Intensity	I _V	I _F = 20mA	770	1300		mcd
50% Power Angle	20⅓H-H	I _F = 20mA		65		deg
JU /0 FUWEI Allyle	2θ½V-V	I _F = 20mA		30		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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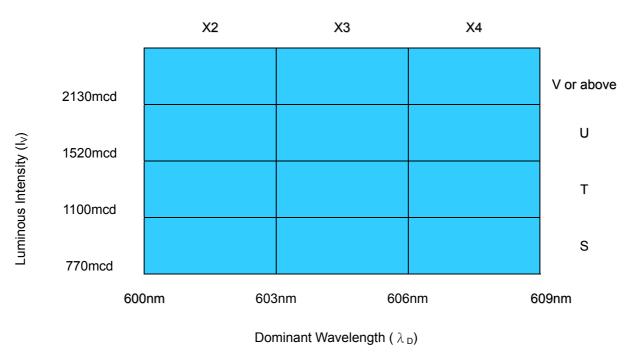
Standard bins for LO566PYO2-65H-A-MT ($I_F = 20$ mA):

Lamps are sorted to Luminous Intensity –I_V, V_F & Dominant Wavelength – λ _D bins shown.

Orders for LO566PYO2-65H-A-MT 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.





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

Forward Voltage (V_F)

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

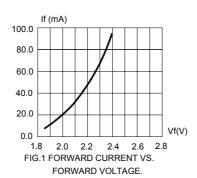
Important Notes:

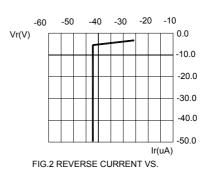
- 1) All ranks will be included per delivery, rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.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



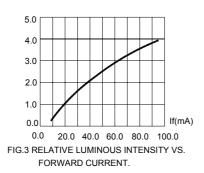
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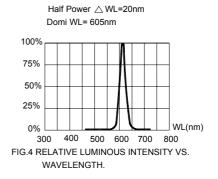
Graphs

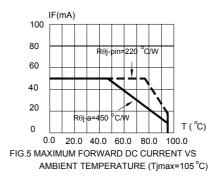


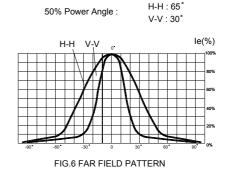


REVERSE VOLTAGE.









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

Items	Signatures Date	
Prepared by	LiuZM	2006-12-06
Checked by	MaJF	2006-12-06
Approved by	David	2006-12-06
FCN#	FCN20	0060

Revision History			
Rev. No	Date	Change Description	

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