

SPECIFICATION FOR COTCO LED LAMP

Document No: SPE/LO566QBL4-60H-A-MT
Model No : LO566QBL4-60H-A-MT
Rev. No: 01
Date: 2005-01-14

Description:

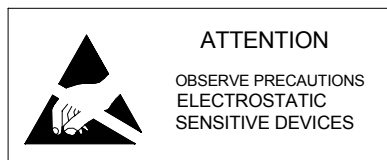
60 Degree 5mm Oval LED Lamp in Blue
Color with Tinted Diffused Lens and No
Stopper

*This specification is only for MT

Dice Material: InGaN

Confirmed
by Customer: _____

Date: _____



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Applications:

- Variable Message Signs
- Message Board

Absolute Maximum Ratings at Ta = 25°C

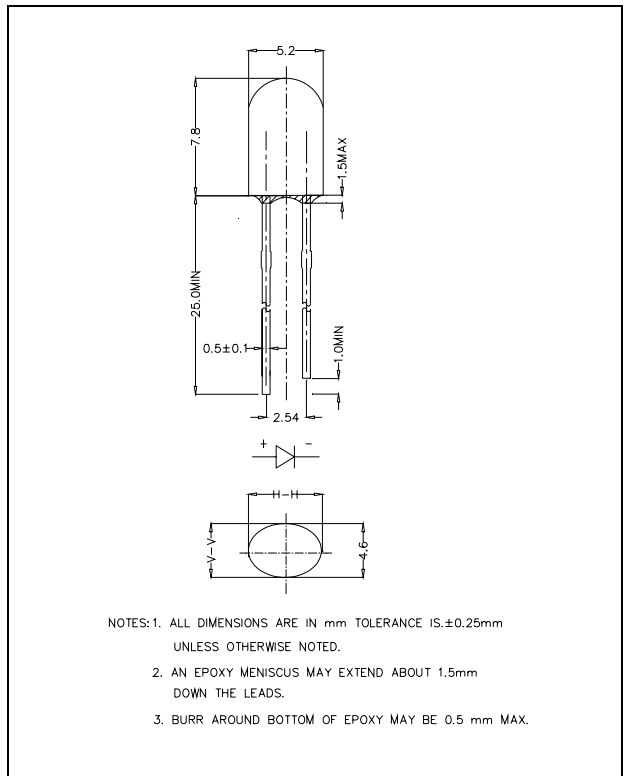
Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	25	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	105	mW
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

*pulse width $\leq 0.1\text{msec}$ duty $\leq 1/10$

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	---	3.6	4.2	V
Forward Voltage	V_F	$I_F = 1.0\mu\text{A}$	1.7	---	2.5	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	100	μA
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	465	470	475	nm
Luminous Intensity	I_V	$I_F = 20\text{mA}$	550	880	---	mcd
50% Power Angle	$2\theta_{\frac{1}{2}\text{H-H}}$	$I_F = 20\text{mA}$	---	60	---	deg
	$2\theta_{\frac{1}{2}\text{V-V}}$	$I_F = 20\text{mA}$	---	35	---	deg

Dimension Drawing

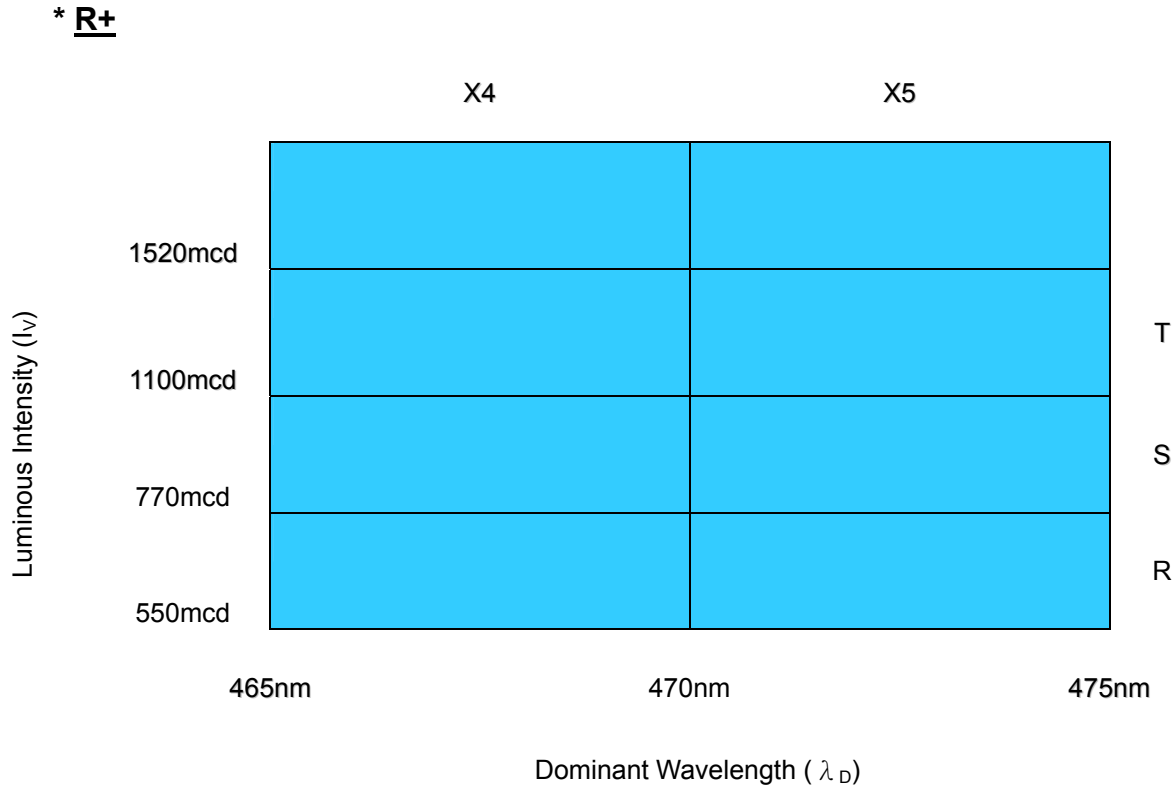


Standard bins for LO566QBL4-60H-A-MT ($I_F = 20\text{mA}$):

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

Orders for LO566QBL4-60H-A-MT may be filled with any or all bins contained as below.

All Luminous Intensity – I_V , V_F & Dominant Wavelength – λ_D values shown and specified are at $I_F = 20\text{mA}$.



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

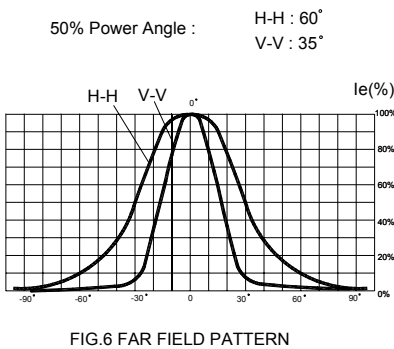
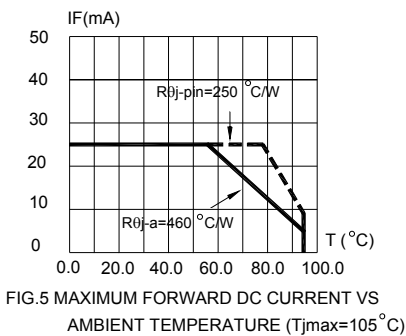
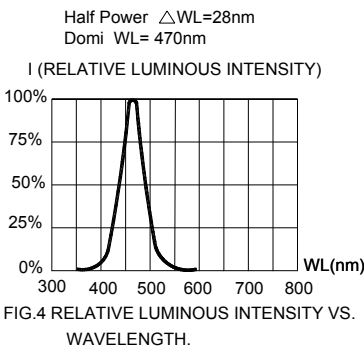
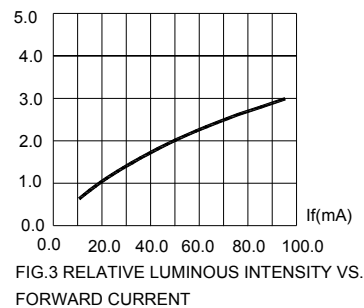
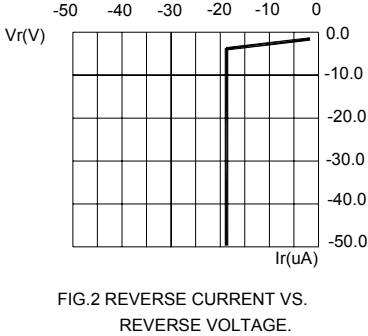
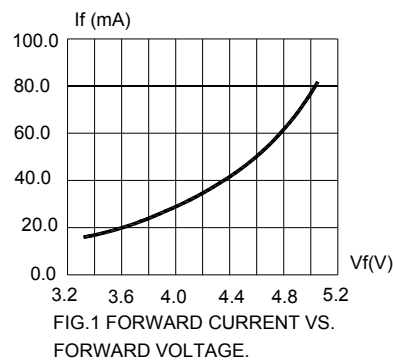
Forward Voltage (V_F)

Rank	V9	V10	V11	V12	V13
Voltage	3.2-3.4 V	3.4-3.6 V	3.6-3.8 V	3.8-4.0 V	4.0-4.2 V

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is $\pm 1\text{nm}$.
- 5) Tolerance of measurement of V_f is $\pm 0.05\text{ V}$.
- 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.

Graphs



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

Items	Signatures	Date	Revision History		
Prepared by	LiuZM	2005-01-14	Rev. No	Date	Change Description
Checked by	MaJF	2005-01-14			
Approved by	David	2005-01-14			
ECN#	ECN-H20050016				

Data is subject to change without prior notice.
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