SPECIFICATION FOR COTCO LED LAMP

MODEL No : LO564PBL4-B0G
DOC. No : D 23Oct03

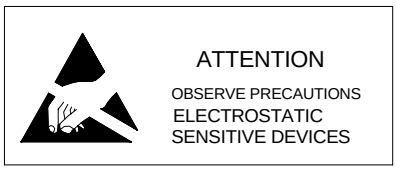
Description:

100 Degree Oval LED Lamp in Blue Color with Tinted Diffused Lens and Stopper

Dice Material: InGaN

Confirmed by Customer: _____

Date: _____



COTCO LUMINANT DEVICE (HUIZHOU) LTD.

Model No.	LO564PBL4-B0G
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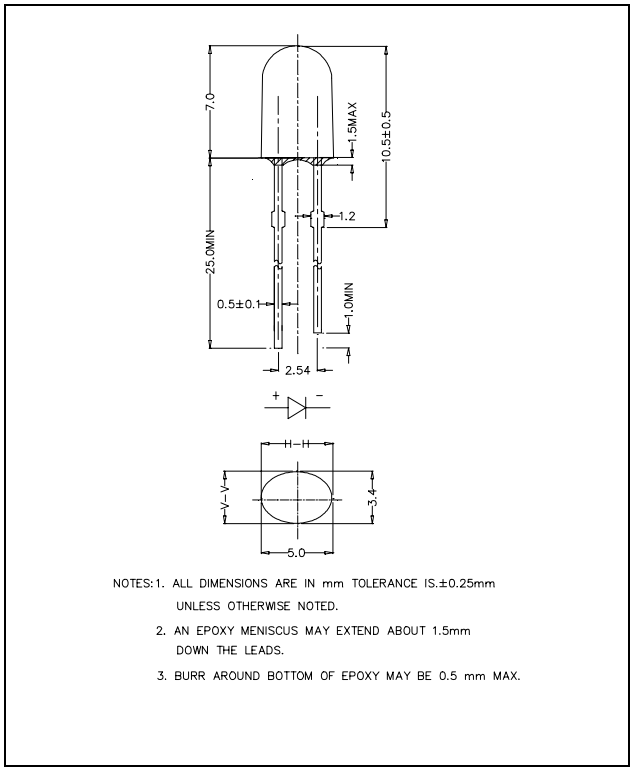
Applications:

- Full Color Display

Dimension Drawing



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}	-20 ~ +75	°C
Storage Temperature	T_{stg}	-30 ~ +80	°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

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F = 20mA	---	3.6	4.2	V
Reverse Current	I_R	V_R = 5V	---	---	100	μA
Dominant Wavelength	λ_D	I_F = 20mA	465	470	475	nm
Luminous Intensity	I_V	I_F = 20mA	200	350	---	mcd
50% Power Angle	2θ½H-H	I_F = 20mA	---	100	---	deg
	2θ½V-V	I_F = 20mA	---	50	---	deg

Ranks Combination (I_F = 20mA)

Rank	N	P	Q
Luminous Intensity	200-280 mcd	280-390 mcd	390-550 mcd

Rank	X4	X5
Dominant Wavelength	465-470 nm	470-475 nm

Important Notes:

1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
2) Tolerance of measurement of luminous intensity is ±15%.
3) Tolerance of measurement of dominant wavelength is ± 1nm.
4) Tolerance of measurement of Vf is ±0.05 V.
5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

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Graphs

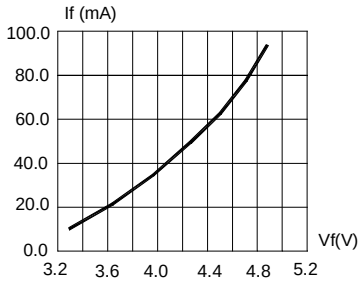

FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

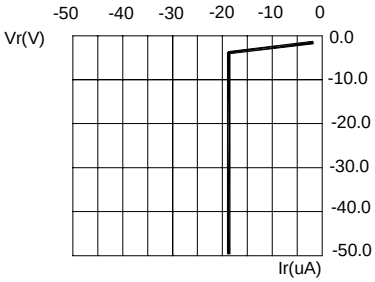

FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

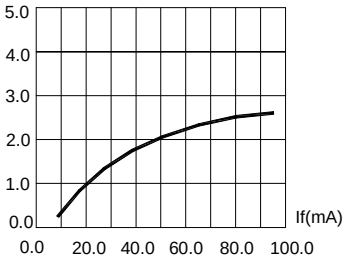

FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

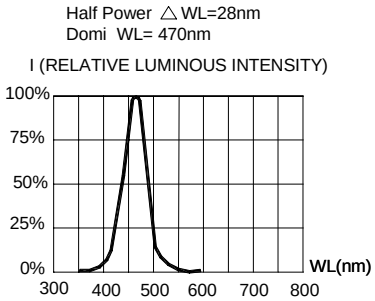

FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

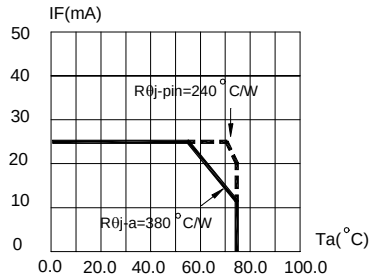

FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=95 °C)

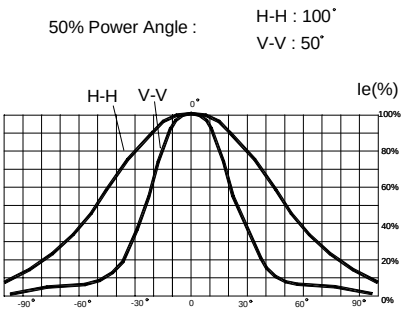

FIG.6 FAR FIELD PATTERN

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

Items	Signatures	Date	Revision History	
Prepared by	LiuZM	2003/10/23	DOC. No.	CHANGE DESCRIPTION
Checked by	ZouGR	2003/10/23	B 02Feb02	CHANGE FORMAT
Approved by	David	2003/10/23	C 10Jul03	Cancel VF(min).
ECN#	ECN-H20030357		D 23Oct03	P_D from 120 to 105; Change FIG.5

Obsoletes Doc: C 10Jul03.