COTCO LUMINANT DEVICE (HUIZHOU) LTD.

SPECIFICATION FOR COTCO LED LAMP

Model No: Rev. No: Date:	SPE/LO494THR4-B0G-A2 LO494THR4-B0G-A2 02 2005-06-27
Description:	
•	I LED Lamp in High Red Color with ens and Stopper
Dice Material:	AlGaInP
Confirmed by Customer:	
Date:	







Document No.	SPE/LO494THR4-B0G-A2		
Rev. No.	02		

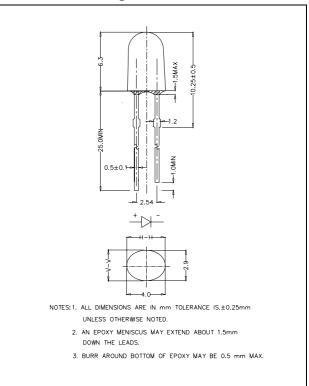
Applications:

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	т	Max.260°C for 3 sec N	lax.	
Temperature T _{sol}		(3mm from the base of the epoxy bulb)		

Dimension Drawing



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

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA		2.3	2.6	V
Reverse Current	I _R	V _R = 5V			100	μΑ
Dominant Wavelength	λ_{D}	I _F = 20mA	620	628	635	nm
Luminous Intensity	I _V	I _F = 20mA	390	750		mcd
50% Dower Angle	20½ H-H	I _F = 20mA		100		deg
50% Power Angle	20½ V-V	I _F = 20mA		50		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.



Document No.	SPE/LO494THR4-B0G-A2
Rev. No.	02

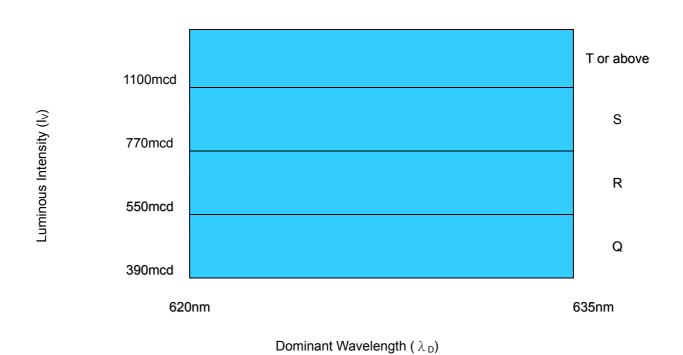
Standard bins for LO494THR4-B0G-A2 ($I_F = 20$ mA):

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

Orders for LO494THR4-B0G-A2 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.





Important Notes:

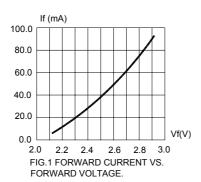
- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of Vf is ±0.05 V.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

 $^{^{\}ast}$ Q+ indicates Luminous Intensity is at Q bin or above.



Document No.	SPE/LO494THR4-B0G-A2
Rev. No.	02

Graphs



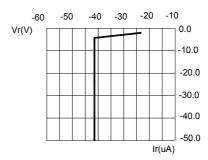
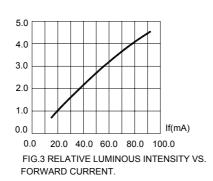
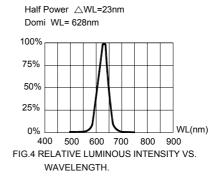
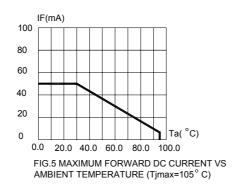
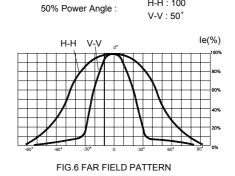


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.









H-H: 100°

Items	Signatures	Date
Prepared by	LiuZM	2005-06-27
Checked by	MaJF	2005-06-27
Approved by	David	2005-06-27
FCN#	FCN200	50208

Revision History		
Rev. No	Date	Change Description
02	2005-06-27	Release.

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