

#### COTCO LUMINANT DEVICE (HUIZHOU) LTD

#### Part #: LO484THR4-B0G

**Product Description:** Red 100° Elliptical LED lamp with tinted diffused lens and stand offs.

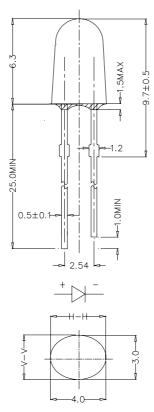
**Resin**: Epoxy

**Lens Color**: Water Transparent

Lead Frame: Ag Plating Copper Alloy

Dice: AlGaInP

#### **DIMENSION DRAWING**



NOTES: 1. ALL DIMENSIONS ARE IN mm TOLERANCE IS.  $\pm 0.25$ mm UNLESS OTHERWISE NOTED.

- 2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.5mm DOWN THE LEADS.
- 3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5 mm MAX.

COTCO-D-074 REV.0

## **SPECIFICATION**

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1/3

## **Marktech Optoelectronics\***

120 Broadway, Menands, NY 12204 Phone: 800.984.5337 FAX: 518.432.7454 Web Site: www.marktechopto.com Absolute Maximum Rating  $(T_a = 25 \bullet)$ 

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	$I_{\mathrm{F}}$	50	mA
Peak Forward Current pulse width •0.1msec duty •1/10	$I_{\mathrm{FP}}$	200	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	150	mW
Operation Temperature	$T_{ m opr}$	-40 ~ + 95	•
Storage Temperature	$T_{stg}$	-40 <b>~</b> +100	•
Lead Soldering Temperature	$T_{\mathrm{sol}}$	260°C for 5sec (3mm from the base of the epoxy bulb)	

Initial Electrical/Optical Characteristics  $(T_a = 25 \bullet)$ 

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	$V_{\mathrm{F}}$	$I_F = 20 mA$	1.7	2.1	2.6	V
Reverse Current	$I_R$	$V_R = 5V$			100	••
Wavelength	$\lambda_{\mathrm{D}}$	$I_F = 20 \text{mA}$	625	628	635	nm
Luminous Intensity	$I_{V}$	$I_F = 20mA$	280	550		mcd
50% Power Angle	2•½ H-H	$I_F = 20 \text{mA}$		100		deg
	2•½ V-V	$I_F = 20 \text{mA}$		45		deg

#### **Luminous Intensity Combination**

Rank	P	Q	R	S
Luminous Intensity (If=20mA)	280-390 mcd	390-550 mcd	550-770 mcd	770-1100 mcd

<sup>\*</sup>One normal delivery will include all ranks listed above.

The quantity ratio of the ranks is decided by COTCO.

Measurement Uncertainty of the Luminous intensity  $\pm 15\%$ 

COTCO-D-074 REV.0

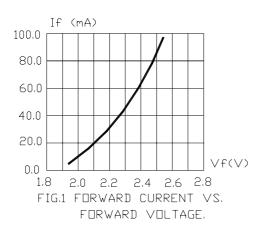
## **GRAPHS**

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2/3

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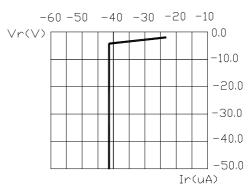
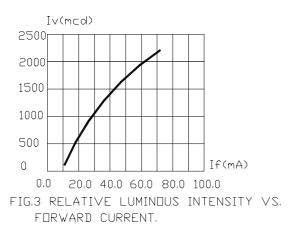
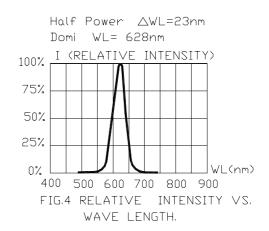
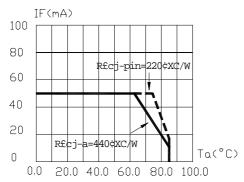
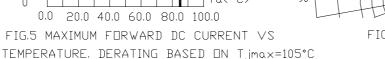


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.









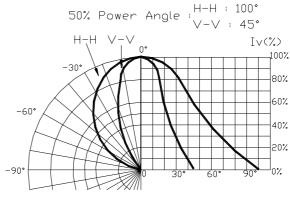


FIG.6 SPATIAL DISTRIBUTION.

- 1.Cathode PAD Area  $(0.18 \times 0.18 \text{inch}^2)$
- 2. Height above nominal seating plane in inches(0.3 inch)

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