

SPECIFICATION FOR COTCO LED LAMP

MODEL No : LP379TYL1-C0G
DOC. No : 04 23Sep04

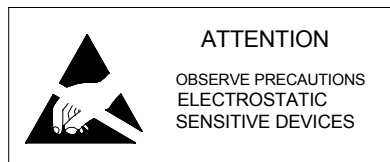
Description:

120 Degree 7.6 x 7.6mm LED Lamp in
Amber Color with Water Transparent Lens
and Stopper

Dice Material: AlGaInP

Confirmed
by Customer: _____

Date: _____



COTCO LUMINANT DEVICE (HUIZHOU) LTD.

Applications:

- Advertising Signs
- Indicators
- Automotive Lighting

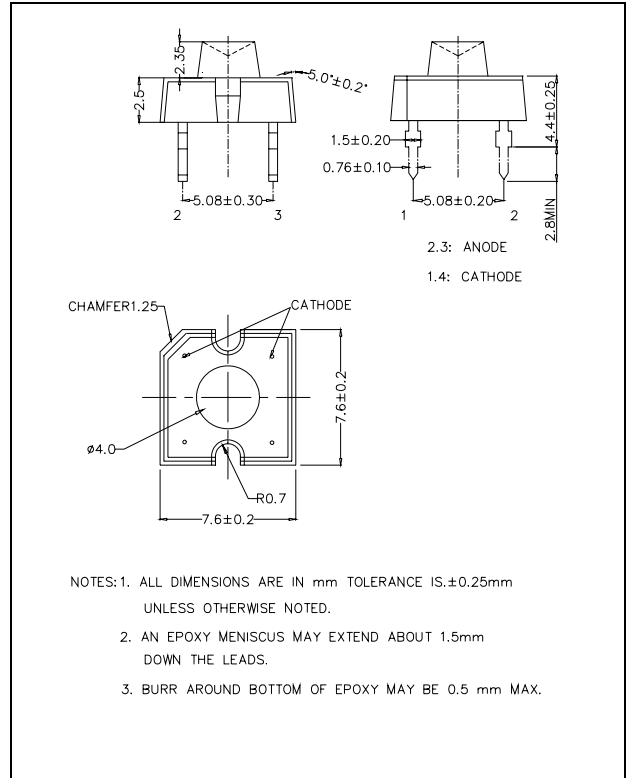
Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current* ²	I _F	70	mA
Peak Forward Current* ¹	I _{FP}	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	220	mW
Operation Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	Max.260°C for 5 sec Max. (3mm from the base of the epoxy bulb)	

*1 pulse width <=0.1msec duty <=1/10

*2 Heat sink is recommended to be adequated if the device is operated at ambient temperatures higher than 25 deg C. For long term performance the drive currents between 10mA and 50mA are recommended. Please contact COTCO sales representative for more information on recommended drive conditions.

Dimension Drawing



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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 70mA	---	2.6	3.2	V
Reverse Current	I _R	V _R = 5V	---	---	100	μA
Dominant Wavelength	λ _D	I _F = 70mA	584	591	599	nm
Luminous Flux	Φ _V	I _F = 70mA	1500	2600	---	mlm
50% Power Angle	2θ _{1/2}	I _F = 70mA	---	120	---	deg

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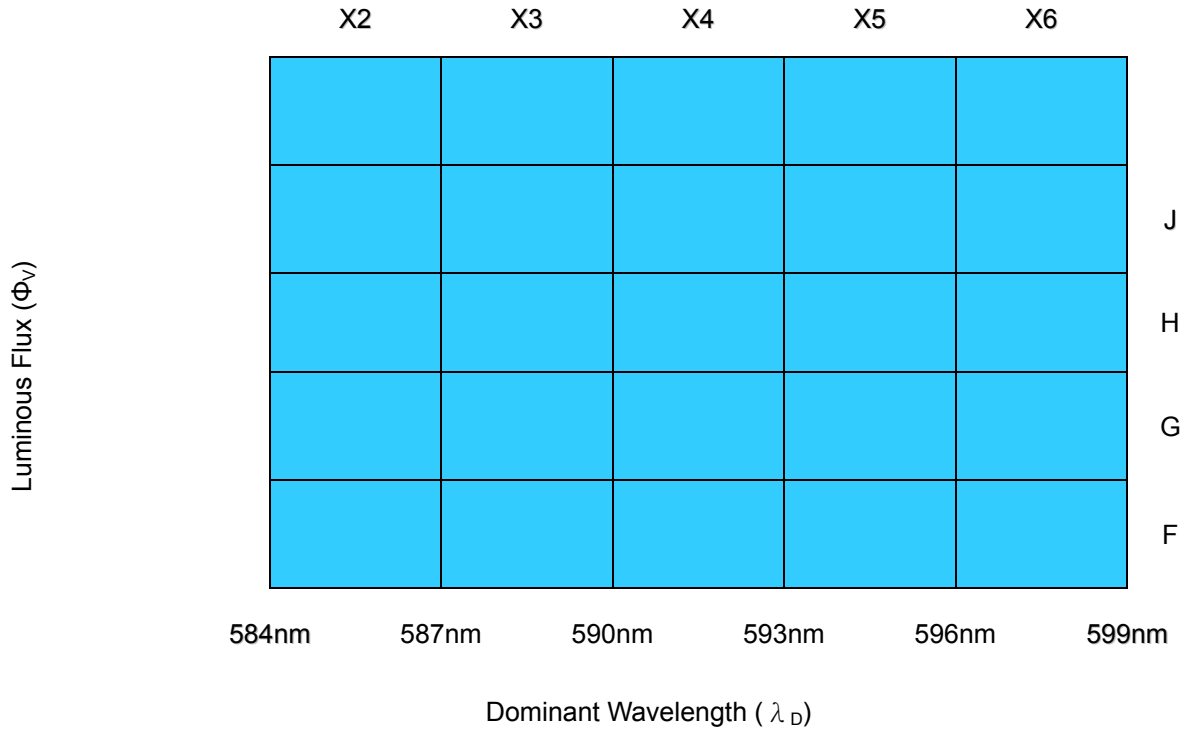
Standard bins for LP379TYL1-C0G (I_F = 70mA):

Lamps are sorted to Luminous Flux – Φ_V , V_F & Dominant Wavelength – λ_D bins shown.

Orders for LP379TYL1-C0G may be filled with any or all bins contained as below.

All Luminous Flux – Φ_V , V_F & Dominant Wavelength – λ_D values shown and specified are at I_f=70mA.

* **F+**



Rank	F	G	H	J
Luminous Flux	1500-2400 mlm	2000-3000 mlm	2500-3600 mlm	3000-4200 mlm

* F+ indicates Luminous Flux is at F bin or above.

Forward Voltage (V_F)

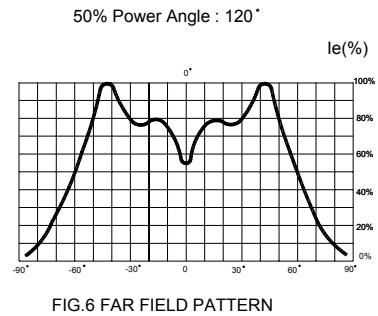
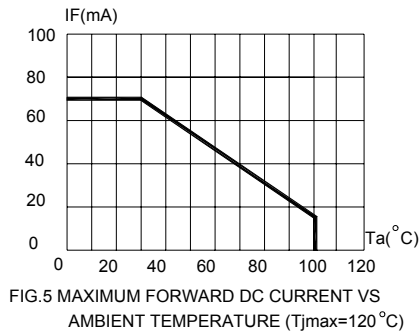
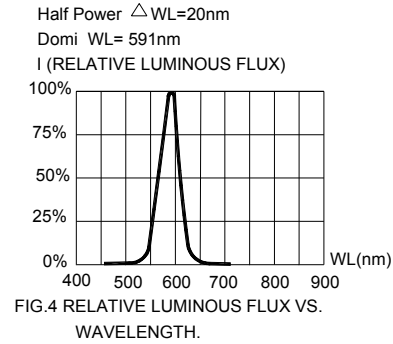
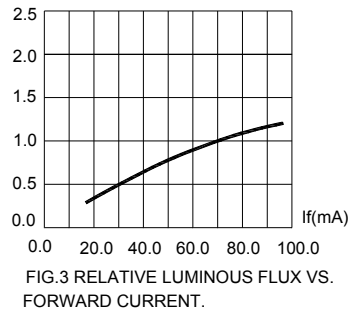
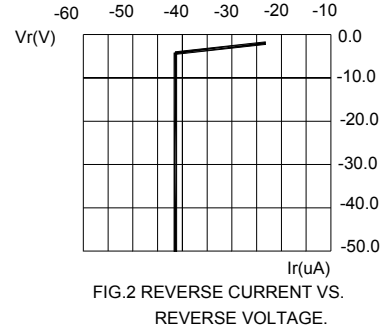
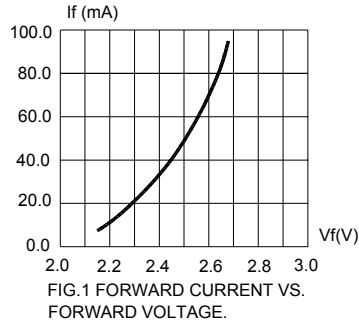
Rank	V4	V5	V6	V7	V8
Voltage	2.2-2.4V	2.4-2.6V	2.6-2.8V	2.8-3.0V	3.0-3.2 V

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
- 2) No tolerance in the measurement of luminous flux.
- 3) Tolerance of measurement of dominant wavelength is ± 1 nm.
- 4) Tolerance of measurement of V_f 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



Items	Signatures	Date	Revision History	
Prepared by	LiuZM	2004/09/23	DOC. No.	CHANGE DESCRIPTION
Checked by	AldosinLi	2004/09/23	B 07May03	Release. Cancel VF(min) &K, VF(max)3.0 to3.2,add X6&V8&F
Approved by	David	2004/09/23	C 13Nov03	P_D from 150 to 220; Change FIG.5.
ECN#	ECN-H20040261	04 23Sep04		Add ESD and Notes; Change FIG.1&3&5; Change Φ_V & λ_D Rank form.

Data is subject to change without prior notice.

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Obsoletes Doc: C 13Nov03.