SPECIFICATION FOR COTCO LED LAMP

Document No: SPE/LP377TYL1-70G-01 Model No: LP377TYL1-70G-01

Rev. No: 02

Date: 2005-05-18

Description:

70 Degree 7.6 \times 7.6mm LED Lamp in Amber Color with Water Transparent Lens and Stopper

Dice Material: AlGaInP

Confirmed by Customer:

Date:







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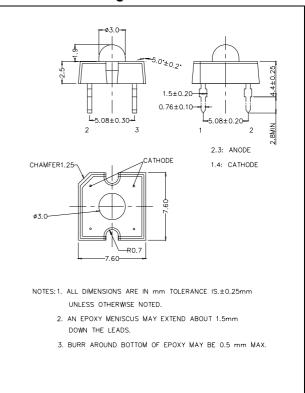
Applications:

- Advertising Signs
- Indicators
- Traffic
- 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		Max.260°C for 5 sec M	lax.
Temperature	T_{sol}	(3mm from the base of the epo	xy bulb)

Dimension Drawing



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

Items	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 70mA		2.6	3.2	V
Reverse Current	I _R	V _R = 5V			100	μΑ
Dominant Wavelength	λ_{D}	I _F = 70mA	584	591	599	nm
Luminous Flux	Фу	I _F = 70mA	2000	3200		mlm
50% Power Angle	20½	I _F = 70mA		70		deg

^{*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.



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Standard bins for LP377TYL1-70G-01 ($I_F = 70mA$):

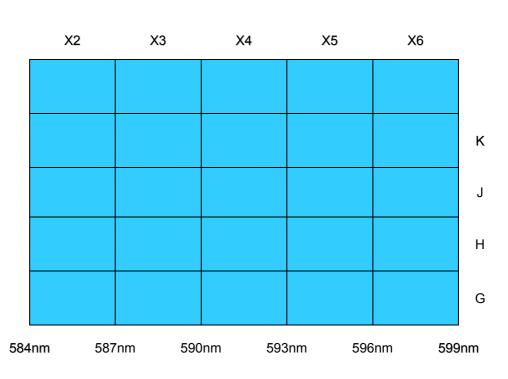
Lamps are sorted to Luminous Flux – Φ_V , V_F & Dominant Wavelength – λ_D bins shown.

Orders for LP377TYL1-70G-01 may be filled with any or all bins contained as below.

All Luminous Flux $-\Phi_V$, V_F & Dominant Wavelength $-\lambda_D$ values shown and specified are at If=70mA.

*<u>G</u>+

Luminous Flux (Φ_V)



Dominant Wavelength (λ _D)

Rank	G	Н	J	К
Luminous Flux	2000-3000 mlm	2500-3600 mlm	3000-4200 mlm	3500-4800 mlm

^{*} G+ indicates Luminous Flux is at G 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

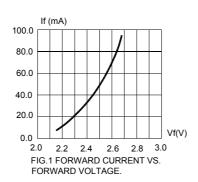
Important Notes:

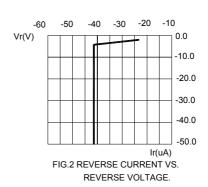
- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) No tolerance in the measurement of luminous flux.
- 3) Tolerance of measurement of dominant wavelength is ±1nm.
- 4) Tolerance of measurement of Vf is ±0.05 V.
- 5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- 6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.
- 7) Please refer to APPLICATION NOTES for Application.

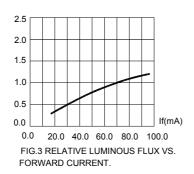


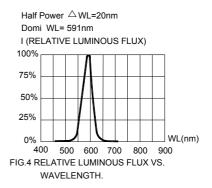
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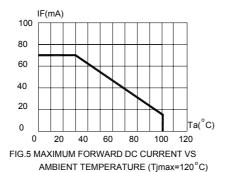
Graphs

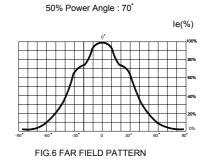












Items	Signatures	Date
Prepared by	LiuZM	2005-05-18
Checked by	Aldosin	2005-05-18
Approved by	David	2005-05-18
FCN#	FCN200	50163

Revision History		
Rev. No	Date	Change Description
02	2005-05-18	Release. Change 20½ from 75deg to 70deg.

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