SPECIFICATION FOR COTCO LED LAMP

MODEL No: LP377TYL1-A0G-MT

DOC. No: 02 11Nov04

Description:

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

*This specification is only for MT

Dice Material: AlGaInP

Confirmed	
by Customer:	

Date:





COTCO LUMINANT DEVICE (HUIZHOU) LTD.





Model No.	LP377TYL1-A0G-MT
Doc. No.	02 11Nov04

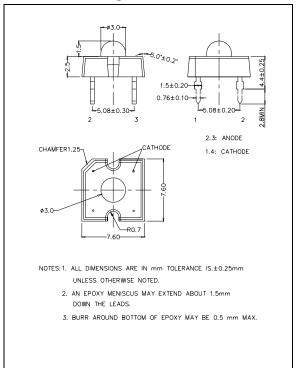
Applications:

- 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		Max.260°C for 5 sec Max.	
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	2 θ½	I _F = 70mA		100		deg

2/4 COTCO-D-074 REV.1

^{*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.



Model No.	LP377TYL1-A0G-MT	
Doc. No.	02 11Nov04	

Standard bins for LP377TYL1-A0G-MT (I_F = 70mA):

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

Orders for LP377TYL1-A0G-MT 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)

	X2	Х3	X	4	X5	X	6	
								К
								J
								Н
								G
584nn	n 587	nm 5	90nm	593	nm 5	96nm	599	nm

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:

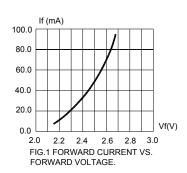
- 1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
- 2) No tolerance in the measurement of luminous flux.
- 3) Tolerance of measurement of dominant wavelength is ±1nm.
- 4) Tolerance of measurement of Vf is ±0.05 V.
- 5) Packaging methods are available for selection,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

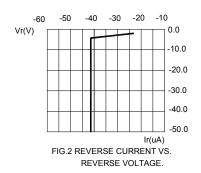
3/4 COTCO-D-074 REV.1

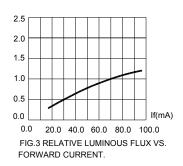


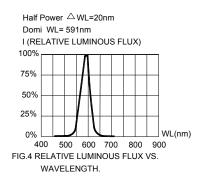
Model No.	LP377TYL1-A0G-MT	
Doc. No.	02 11Nov04	

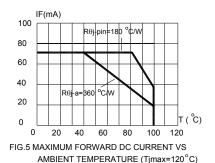
Graphs

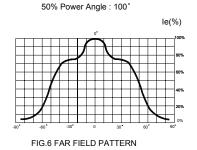












- 1. Cathode PAD Area (0.18 X 0.18 X 2inch²)
- 2. Height above nominal seating plane in inches(0.3inch)

Items	Signatures	Date	Revision History	
Prepared by	LiuZM	2004/11/11	DOC. No.	CHANGE DESCRIPTION
Checked by	AldosinLi	2004/11/11	02 11Nov04	VF add V8. Change Φ_V & λ_D form.
Approved by	David	2004/11/11		
ECN#	ECN-H20040261			

Data is subject to change without prior notice.

Copyright@2002 Cotco International Ltd.

Obsoletes Doc: A 01Jul03.

4/4 COTCO-D-074 REV.1