SPECIFICATION FOR COTCO LED LAMP

MODEL No: LC512TYL1-25Q-A-MT

DOC. No: 02 11Nov04

Description:

25 Degree 5mm LED Lamp in Amber Color with Water Transparent Lens and No Stopper

*This specification is only for MT Dice Material: AlGaInP

Confirmed	
by Customer:	

Date:





COTCO LUMINANT DEVICE (HUIZHOU) LTD.



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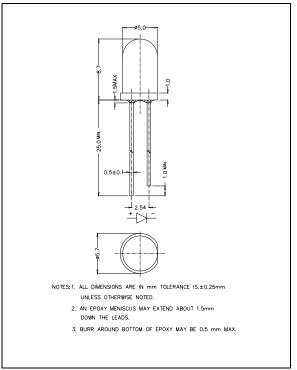
Applications:

- Advertising Signs
- Indicators
- Traffic
- Automotive Lighting

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum	Unit	
nemo	Cyrribor	Rating	Oill	
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	_	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)		
Temperature	T_{sol}			

Dimension Drawing



Typical Electrical & Optical Characteristics (Ta = 25°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	μА
Dominant Wavelength	λ_{D}	I _F = 20mA	584	591	596	nm
Luminous Intensity	I _V	I _F = 20mA	2130	4200		mcd
50% Power Angle	2 0 ½H-H	I _F = 20mA		25		deg

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^{*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.



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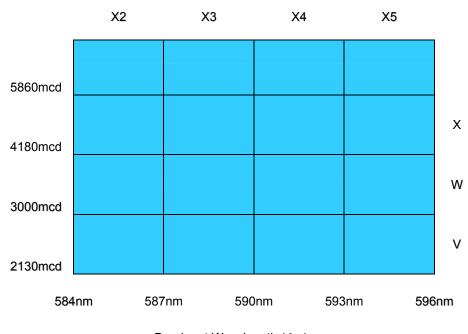
Standard bins for LC512TYL1-25Q-A-MT ($I_F = 20mA$):

Lamps are sorted to Luminous Intensity –I_V , V_F& Dominant Wavelength – λ _D bins shown.

Orders for LC512TYL1-25Q-A-MT may be filled with any or all bins contained as below.

All Luminous Intensity $-I_V$, V_F & Dominant Wavelength $-\lambda_D$ values shown and specified are at I_F =20mA.





Dominant Wavelength (λ D)

Forward Voltage (V_F)

Rank	V2	V3	V4	V5
Voltage	1.8-2.0V	2.0-2.2V	2.2-2.4V	2.4-2.6V

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is ±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.

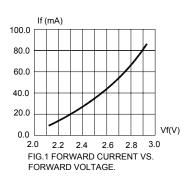
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^{*} V+ indicates Luminous Intensity is at V bin or above.



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Graphs



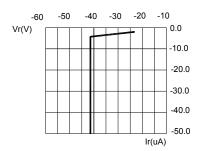
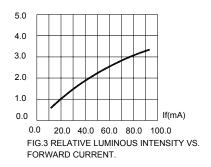
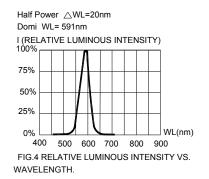
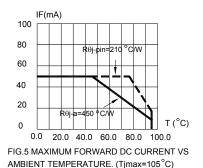
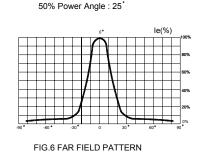


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.









- 1. Cathode PAD Area (0.18 X 0.18inch²)
- 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	Aldosin	2004/11/11	02 11Nov04	VF cancel V1. Change IV & λ_D form.	
Approved by	David	2004/11/11			
ECN#	ECN-H20040298				

Data is subject to change without prior notice.

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Obsoletes Doc: A 23Feb04.

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