Crest Technologies Pty Ltd
46/41-49 Norcal Rd Nunawading 3131 Australia
Tel: (03) 9873 8830 Fax: (03) 9873 8799
Email: sales@cresttech.com.au
Web: http://www.cresttech.com.au

Model: **L-5T2OSY-D7V**

70 Degree Oval LED Lamp in High Amber Color with Water Transparent Lens and No Stopper

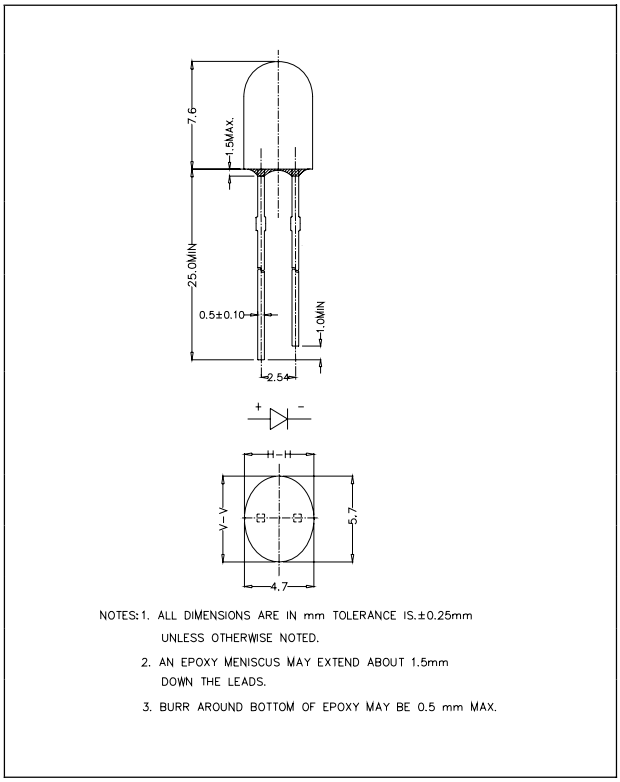
Dice Material:

AlGaInP

Applications:

- Variable Message Signs
- Message Board

Dimension Drawing



Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
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 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 For long term performance the drive currents between 10mA and 30mA are recommended.

.

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F = 20mA	---	2.3	2.6	V
Reverse Current	I_R	V_R = 5V	---	---	100	μA
Dominant Wavelength	λ_D	I_F = 20mA	584	591	596	nm
Luminous Intensity	I_V	I_F = 20mA	770	1100	---	mcd
50% Power Angle	$2\theta_{1/2}$H-H	I_F = 20mA	---	70	---	deg
	$2\theta_{1/2}$V-V	I_F = 20mA	---	40	---	deg

Crest Technologies Pty Ltd
46/41-49 Norcal Rd Nunawading 3131 Australia
Tel: (03) 9873 8830 Fax: (03) 9873 8799
Email: sales@cresttech.com.au
Web: http://www.cresttech.com.au

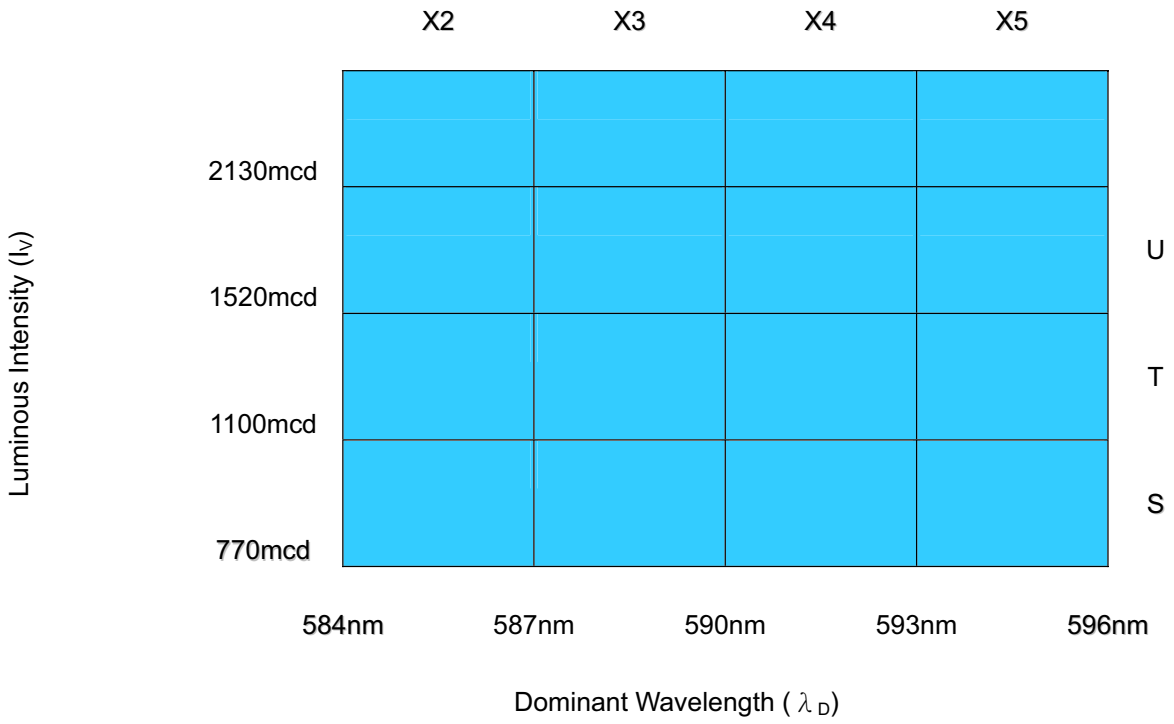
Standard bins for L-5T2OSY-D7V (I_F = 20mA):

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

Orders for L-5T2OSY-D7V may be filled with any or all bins contained as below.

All Luminous Intensity –I_V , V_F & Dominant Wavelength – λ_D values shown and specified are at I_F =20mA.

*** S+**



* S+ indicates Luminous Intensity is at S bin or above.

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 based on the Dices distribution.

2) Tolerance of measurement of luminous intensity is ±15%.

3) Tolerance of measurement of dominant wavelength is ±1nm.

4) Tolerance of measurement of Vf is ±0.05 V.

Crest Technologies Pty Ltd
46/41-49 Norcal Rd Nunawading 3131 Australia
Tel: (03) 9873 8830 Fax: (03) 9873 8799
Email: sales@cresttech.com.au
Web: http://www.cresttech.com.au

Graphs

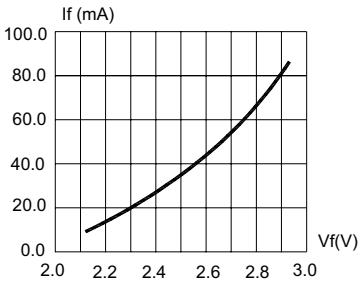


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

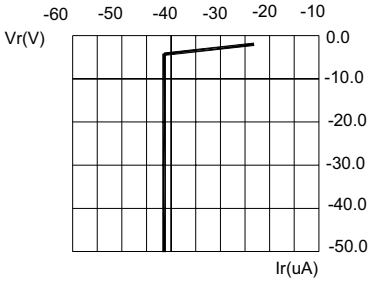


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

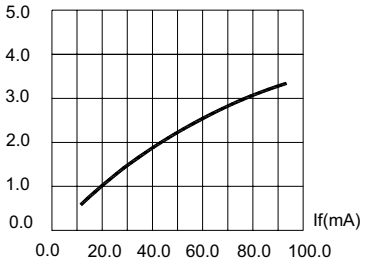


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

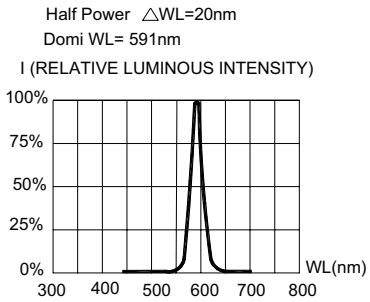


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

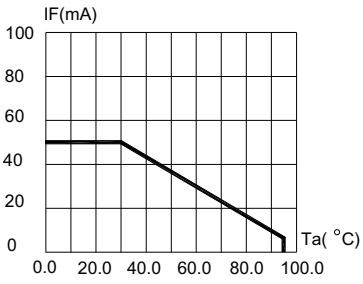


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105 °C)

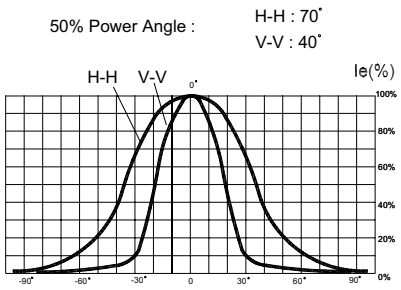


FIG.6 FAR FIELD PATTERN