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Model: L-5T2OPG-D7H

70 Degree Oval LED Lamp in Pure Green Color with Tinted Diffused Lens and No Stopper

Dice Material:

InGaN

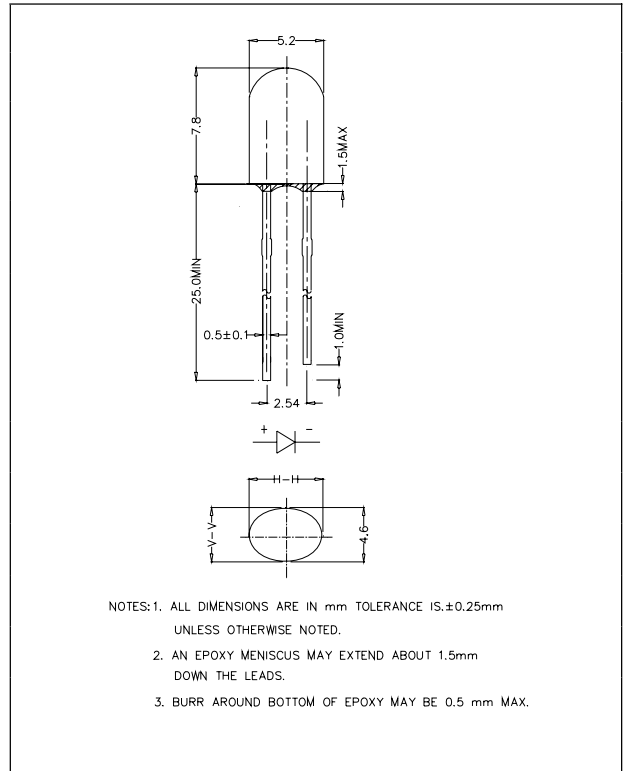
Applications:

- Full Color Display
- Variable Message Signs
- Message Board

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	25	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	105	mW
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

Dimension Drawing



*pulse width $\leq 0.1\text{msec}$ duty $\leq 1/10$

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	---	3.6	4.2	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	100	μA
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	520	527	535	nm
Luminous Intensity	I_V	$I_F = 20\text{mA}$	1100	1700	---	mcd
50% Power Angle	$2\theta_{\frac{1}{2}H-H}$	$I_F = 20\text{mA}$	---	65	---	deg
	$2\theta_{\frac{1}{2}V-V}$	$I_F = 20\text{mA}$	---	45	---	deg



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Standard bins for L-5T2OPG-D7H ($I_F = 20\text{mA}$):

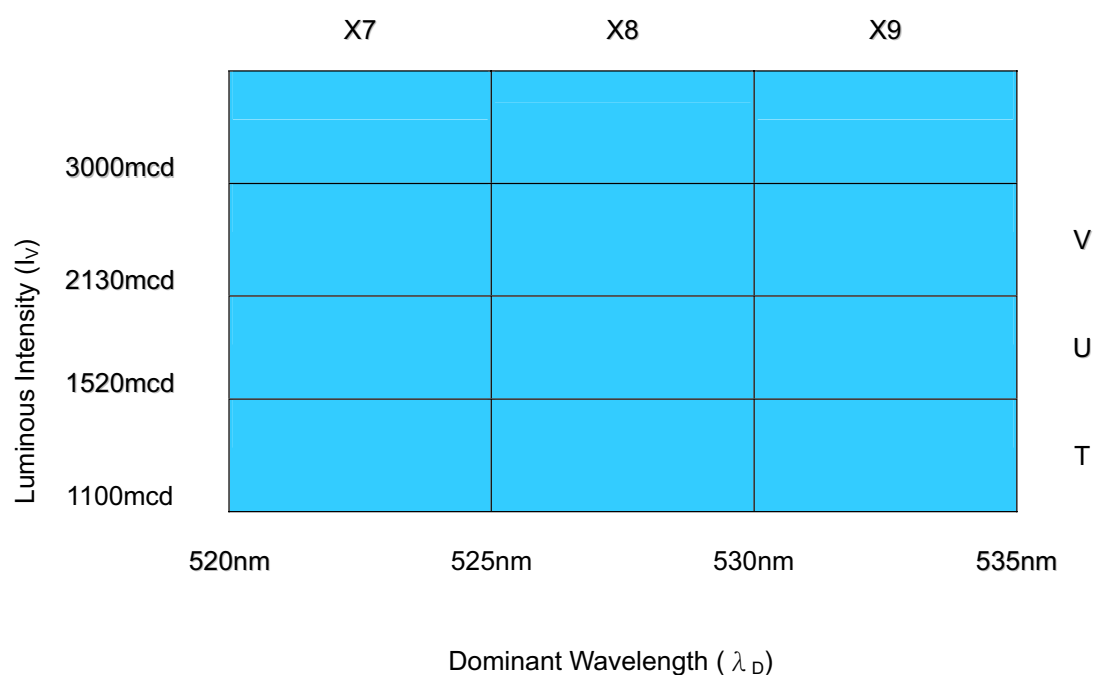
Lamps are sorted to Luminous Intensity – I_V & Dominant Wavelength – λ_D bins shown.

Orders for L-5T2OPG-D7H may be filled with any or all bins contained as below.

All Luminous Intensity – I_V & Dominant Wavelength – λ_D values shown and specified are at $I_F = 20\text{mA}$.

* T+

—



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

Important Notes:

- 1) All ranks will be included per delivery; rank ratio will be based on the Dices distribution.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is $\pm 1\text{nm}$.
- 5) Tolerance of measurement of V_f is $\pm 0.05\text{ V}$.

Graphs

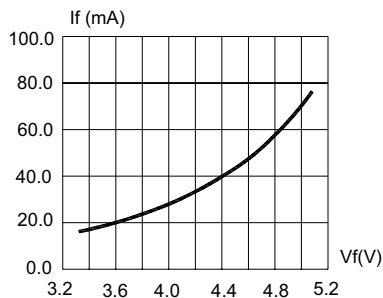


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

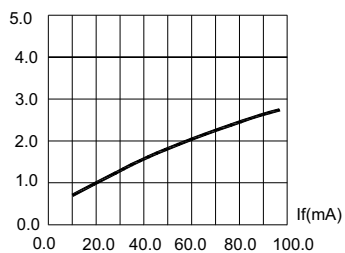


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

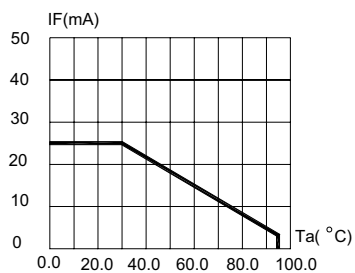


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE (Tjmax=105°C)

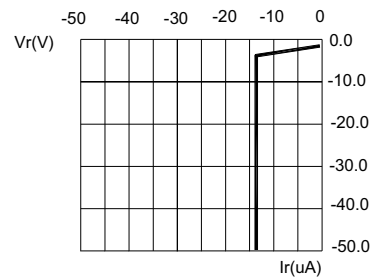


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

Half Power $\Delta WL=38nm$
Domi WL= 525nm

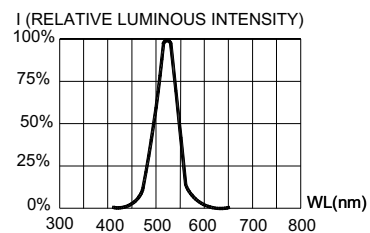


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

50% Power Angle : H-H : 65°
V-V : 45°

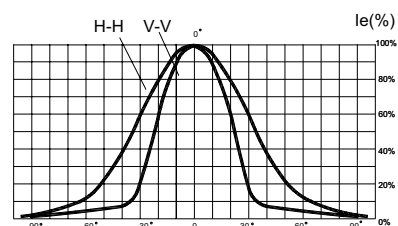


FIG.6 FAR FIELD PATTERN

