



Ledman Optoelectronic Co., Ltd.

DATA SHEET

Model No. : LL1530EYYL1-301

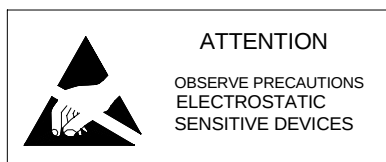
Doc No. : LMS-15-161

Revision No. : 01

Description:

- 5mm Round lamp
- Lens Color: Water Clear
- Emitting Color: High Yellow
- Viewing Angle :30°
- No Stopper

Dice Material: AlGaInP



PREPARED BY	CHECKED BY	APPROVED BY
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Applications:

Traffic Light
Moving Message Board

Absolute Maximum Ratings at Ta = 25°C

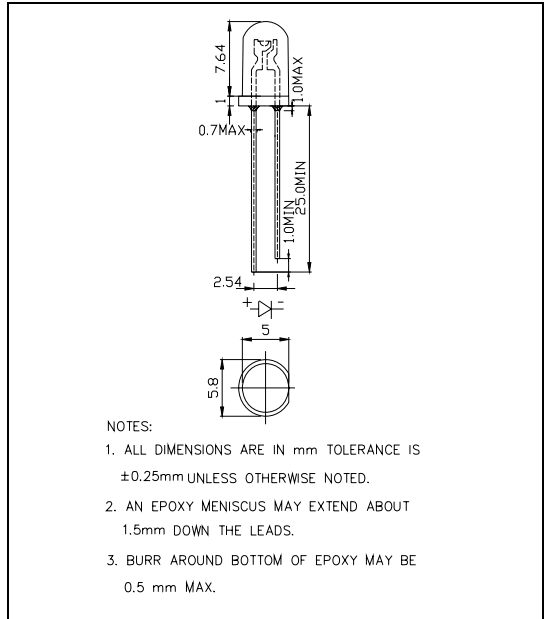
Items	Symbol	Absolute maximum Rating	Unit
DC Forward Current	I _F	50	mA
Peak Forward Current*	I _{FP}	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	130	mW
Operation Temperature	T _{opr}	-40 ~ +95	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	Max.260°C for 5 sec Max. (3mm from the base of the epoxy bulb)	

*pulse width ≤0.1msec duty ≤1/10

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	---	2.0	2.6	V
Reverse Current	I _R	V _R = 5V	---	---	10	μA
Dominant Wavelength	λ _D	I _F = 20mA	---	590	---	nm
Luminous Intensity	I _V	I _F = 20mA	---	6000	---	mcd
50% Power Angle	2θ _{H-H}	I _F = 20mA	---	30	---	deg
	2θ _{V-V}	I _F = 20mA	---	---	---	deg

Outlines Dimension



Important Notes:

- 1) The brightness of our Ledman's LEDs are in 1:1.4 bin sorting, no more than continuously 2 Bin sorts.
- 2) All ranks will be included per delivery, rank ratio will be determined by LEDMAN.
- 3) Tolerance of measurement of luminous intensity is ±15%.
- 4) Tolerance of measurement of dominant wavelength is ±1nm.
- 5) Tolerance of measurement of V_F is ±0.05 V.
- 6) Packaging methods are available for selection, please refer to “**Ledman LED Packaging Standard.**” document
- 7) Reliability test conditions, Please refer to “**Ledman LED Reliability Test Standards**” document.
- 8) How to use Ledman LED product safely ,Please refer to “**Ledman LED Application Notes**” document.
- 9) Specifications are subject to change without notice.

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Typical Optical-Electronic Characteristic Curves:

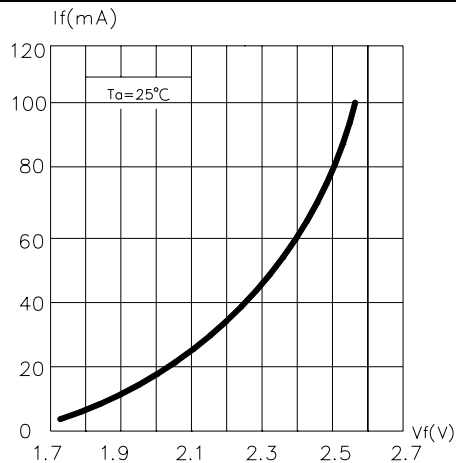


Fig.1 Forward Current vs. Forward Voltage

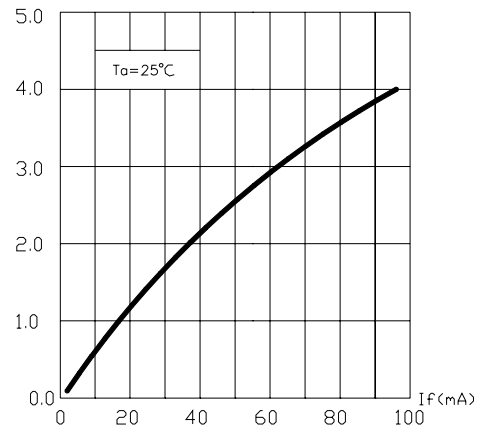


Fig.2 Relative Luminous Intensity vs. Forward Current

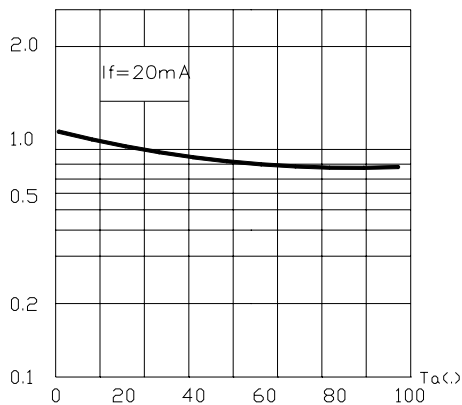


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

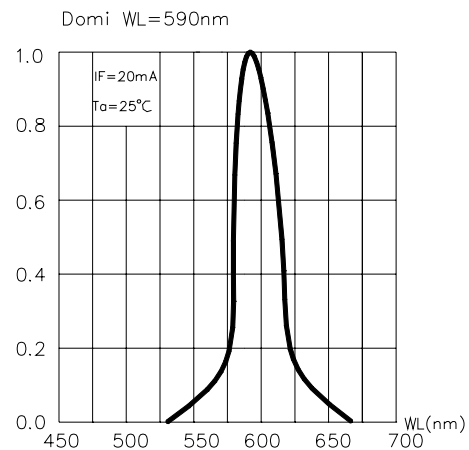


Fig.4 Relative Luminous Flux vs. Wavelength

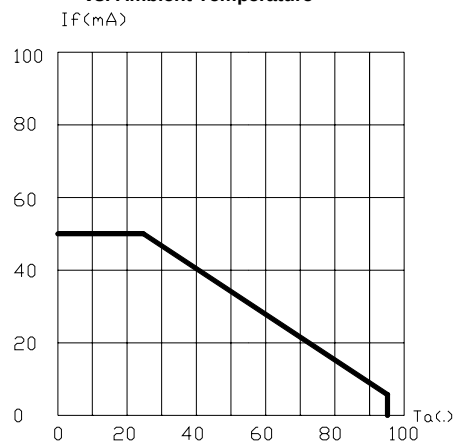


Fig.5 Maximum Forward Current vs. Ambient Temperature

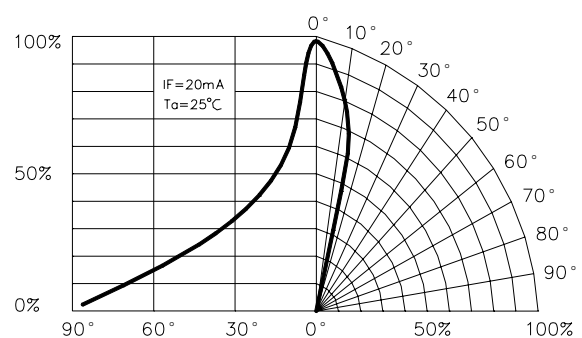


Fig.6 Relative Luminous Intensity vs. Radiation Angle

Items	Signatures	Date	R&D ISSUE
Prepared by	XinHua Wu	2009-05-31	
Checked by	Zhensheng Xie	2009-05-31	
Approved by	Jiandong Huang	2009-05-31	