



Ledman Optoelectronic Co., Ltd.

DATA SHEET

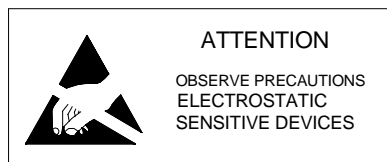
MODEL No : LL2508JQYL4-702
DOC. No : LMS-25-070
Revision: 02

Description:

- 5mm Oval lamp
- Lens Color: Colored Diffused
- Emitting Color: Yellow
- Viewing Angle :70°
- Stopper

Dice Material: AlGaInP

PREPARED BY	CHECKED BY	APPROVED BY	CUSTOMER APPROVED SIGNATURES
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Applications:

- Full Color Display
- Moving Message Board

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
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 $\leq 0.1\text{msec}$ duty $\leq 1/10$

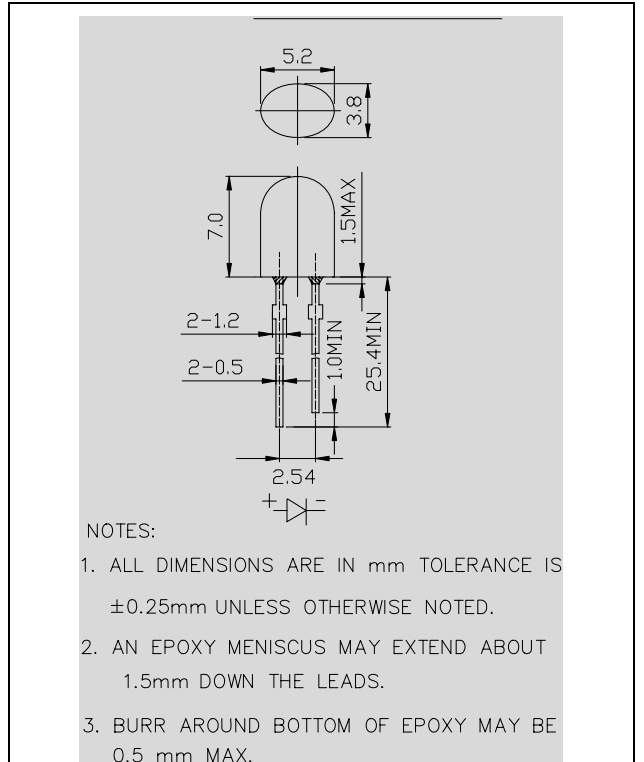
Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	1.7	2.0	2.6	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	10	μA
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	---	590	---	nm
Luminous Intensity	I_v	$I_F = 20\text{mA}$	---	1500	---	mcd
50% Power Angle	20½H-H	$I_F = 20\text{mA}$	---	70	---	deg
	20½V-V	$I_F = 20\text{mA}$	---	35	---	deg

Important Notes:

- All ranks will be included per delivery, rank ratio will be determined by LEDMAN.
- Tolerance of measurement of luminous intensity is $\pm 15\%$.
- Tolerance of measurement of dominant wavelength is $\pm 1\text{nm}$.
- Tolerance of measurement of Vf is $\pm 0.05\text{V}$.
- Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Dimension Drawing





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Typical Optical-Electronic Characteristic Curves

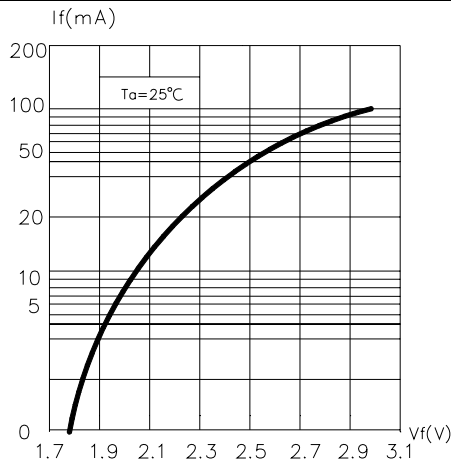


Fig.1 Forward Current vs. Forward Voltage

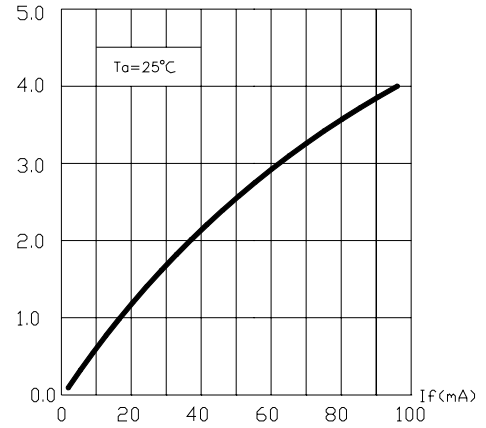


Fig.2 Relative Luminous Intensity vs. Forward Current

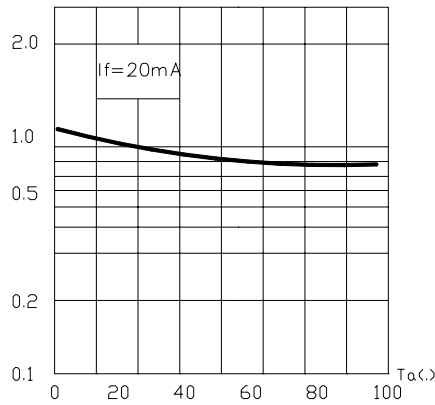


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

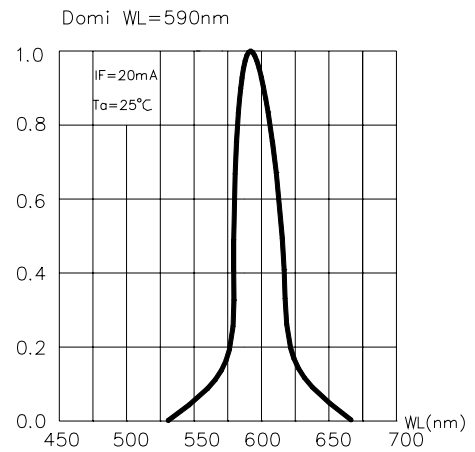


Fig.4 Relative Luminous Flux vs. Wavelength

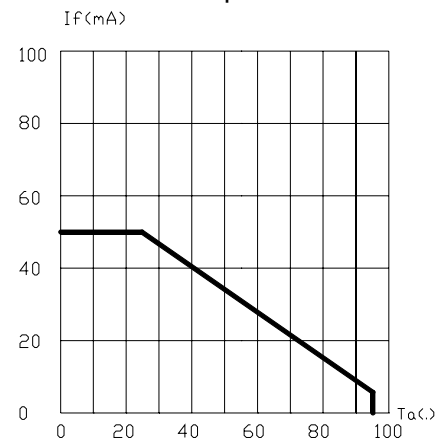


Fig.5 Maximum Forward Current vs. Ambient Temperature

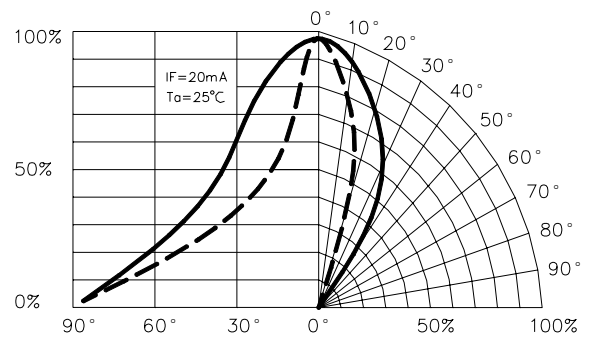


Fig.6 Relative Luminous Intensity vs. Radiation Angle

Items	Signatures	Date
Prepared by	Dan yang	1-01-2008
Checked by	Zhensheng Xie	1-01-2008
Approved by	Yanshan Liu	1-01-2008

R&D ISSUE