DATA SHEET

MODEL No : LL2508JQHR4-702
DOC. No : LMS-25-069
Revision: 02

Description:

- **5mm Oval lamp**
- **Lens Color: Colored Diffused**
- **Emitting Color: Highr Red**
- **Viewing Angle :70˚**
- **Stopper**

Dice Material: AlGaInP

PREPARED BY	CHECKED BY	APPROVED BY	CUSTOMER APPROVED SIGNATURES

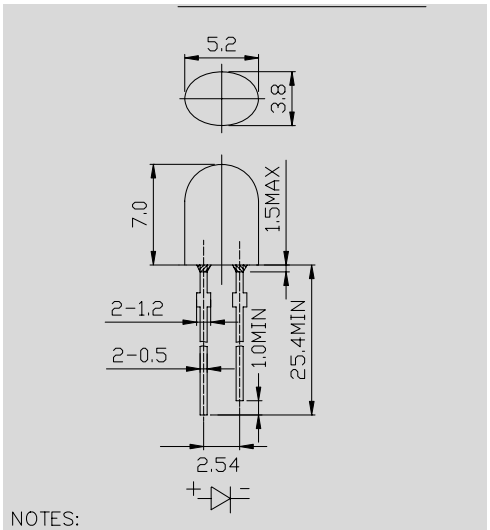
Model No.	LL2508JQHR4-702
Doc. No.	LMS-25-069
Revision:	02

Applications:

Full Color Display

Moving Message Board

Dimension Drawing



NOTES:

1. ALL DIMENSIONS ARE IN mm TOLERANCE IS ±0.25mm UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.5mm DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5 mm MAX.

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 <=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	1.7	2.1	2.6	V
Reverse Current	I_R	V_R = 5V	---	---	10	μA
Dominant Wavelength	λ_D	I_F = 20mA	---	624	---	nm
Luminous Intensity	I_V	I_F = 20mA	---	1700	---	mcd
50% Power Angle	2θ½H-H	I_F = 20mA	---	70	---	deg
	2θ½V-V	I_F = 20mA	---	35	---	deg

Important Notes:

1) All ranks will be included per delivery, rank ratio will be determined by LEDMAN.
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.
5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Model No.	LL2508JQHR4-702
Doc. No.	LMS-25-069
Revision:	02

Typical Optical-Electronic Characteristic Curves

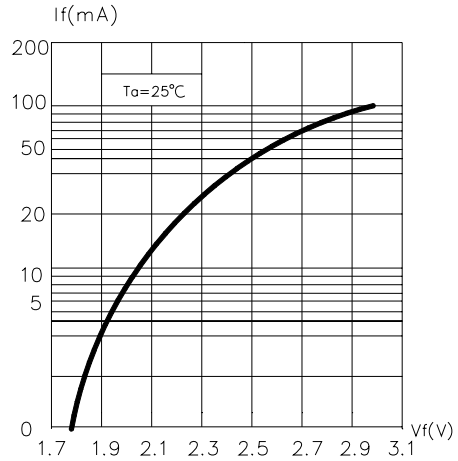


Fig.1 Forward Current vs. Forward Voltage

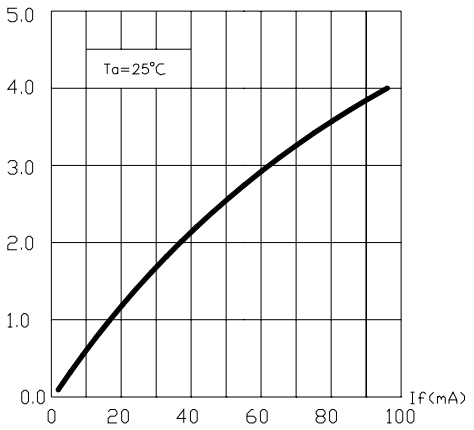


Fig.2 Relative Luminous Intensit vs. Forward Current

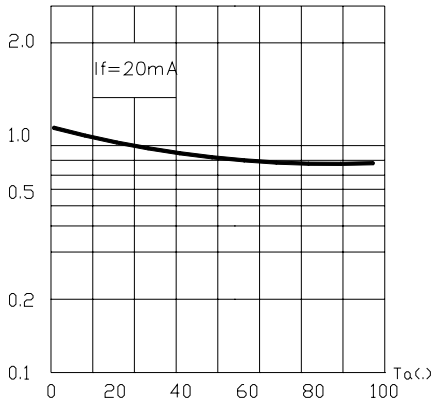


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

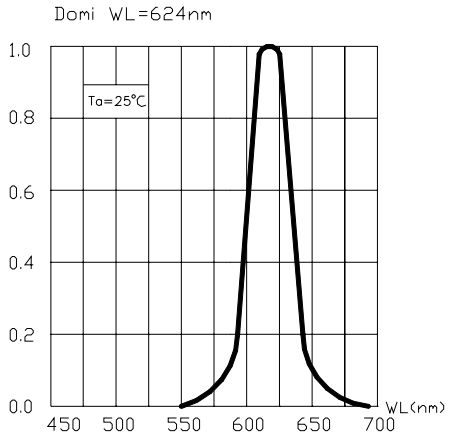


Fig.4 Relative Luminous Flux vs. Wavelength

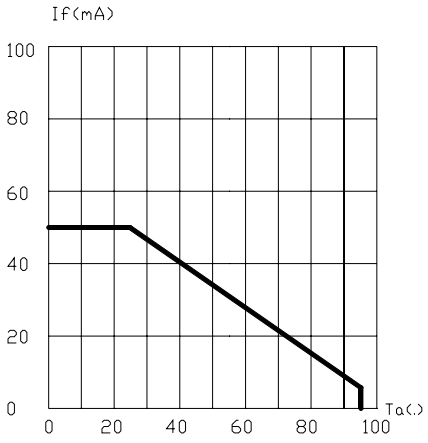


Fig.5 Maximum Forward Current vs. Ambient Temperature

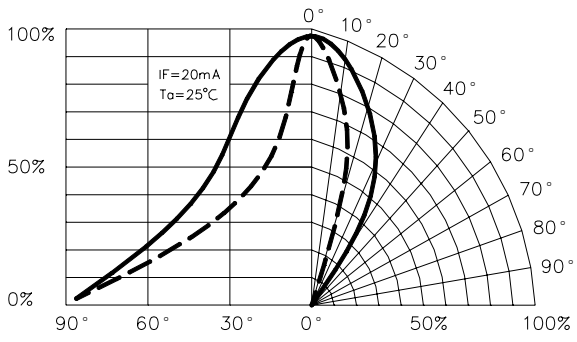


Fig.6 Relative Luminous Intensity vs.Radiation Angle

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