



Ledman Optoelectronic Co., Ltd.

DATA SHEET

MODEL No : LL2508PLBL4-A02

ENG. No: J0603008

Description:

- 5mm Oval lamp
- Lens Color: Colored Diffused
- Emitting Color: Blue
- Viewing Angle :100°
- 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	25	mA
Peak Forward Current*	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	120	mW
Operation Temperature	T _{opr}	-30 ~ +85	°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)	

*pulse width <=0.1msec duty <=1/10

Dimension Drawing

NOTES:

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

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	2.8	3.4	4.0	V
Reverse Current	I _R	V _R = 5V	---	---	10	μA
Dominant Wavelength	λ _D	I _F = 20mA	465	470	475	nm
Luminous Intensity	I _v	I _F = 20mA	300	450	---	mcd
50% Power Angle	2θ _{1/2} H-H	I _F = 20mA	---	100	---	deg
	2θ _{1/2} V-V	I _F = 20mA	---	50	---	deg

Important Notes:

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



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Typical Optical-Electronic Characteristic Curves

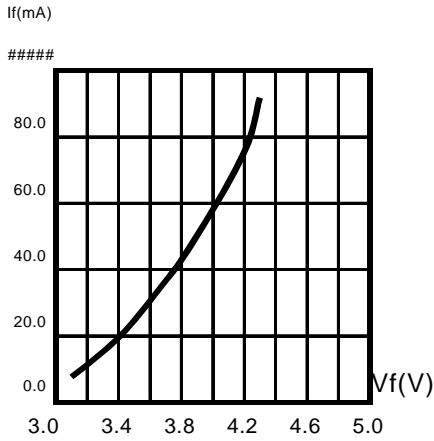


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

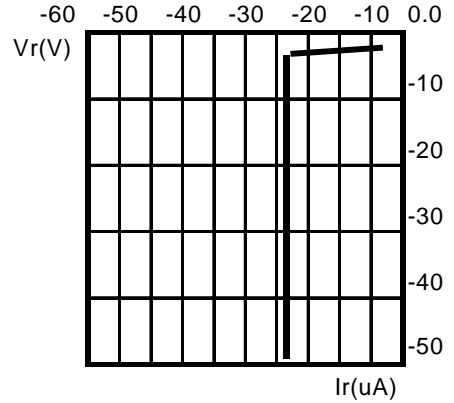


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

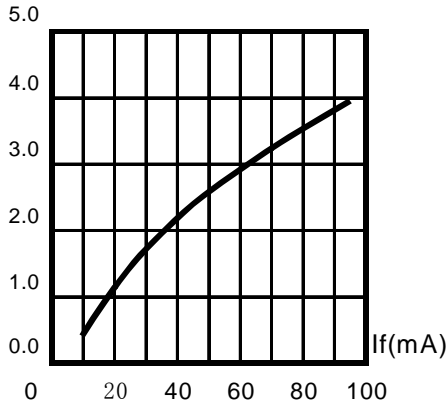


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

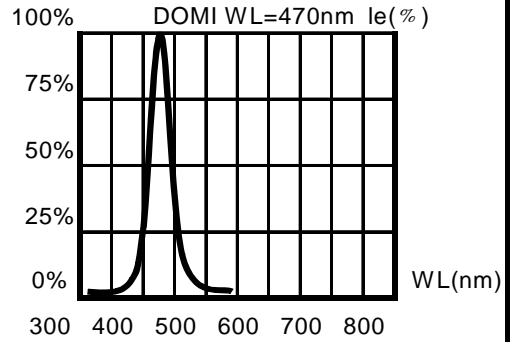


Fig.4 INTENSITY VS. WAVELENGTH.

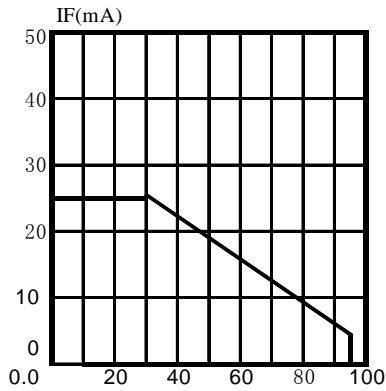


FIG.5 MAXIMUM FORWARD DC CURRENT VS AMBIENT TEMPERATURE(Tjmax=105°C)

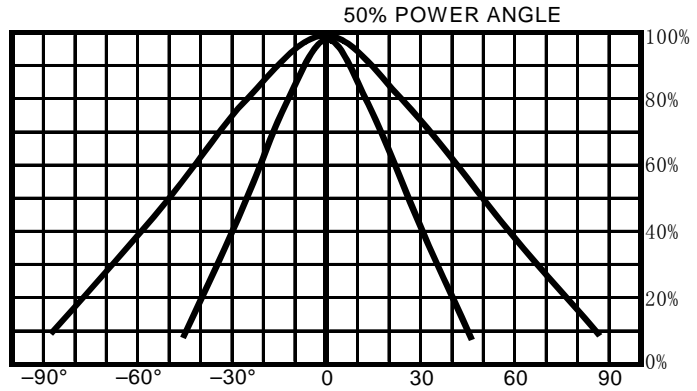


Fig.6 FAR FIELD PATTERN

Items	Signatures	Date
Prepared by	Zhao Meiling	03-29-2006
Checked by		
Approved by		

R&D ISSUE