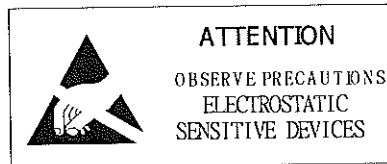


# SPECIFICATION FOR LED LAMP

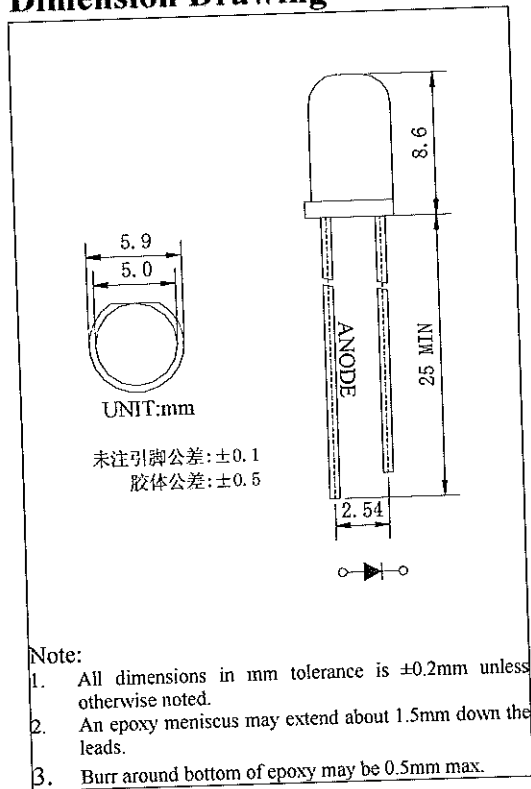
CUSTOMER 客 户:	奕鸿
MODEL NO 型 号:	YDG-504VC
品 规	Φ5 白发紫灯
DRAWIN DATE 制图日期:	2008-5-6

Descriptions:	
•	5mm Round Type
•	Emitting Color: VIOLET
•	Viewing Angle : 20°
•	Lens: Water Clear



CUSTOMER APPROVED SIGNATURES 客户确认	APPROVED BY 审 核	CHECKED BY 核 对	PREPARED BY 制 图
		龚国双	徐品梅

## Dimension Drawing



## Applications:

- Toys
- Lighting Switches
- X'mas Lighting
- Backlighting panels

## Absolute Maximum Ratings(Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Forward Current( DC )	I <sub>F</sub>	25	mA
Peak Forward Current*	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	120	mW
Operation Temperature	T <sub>opr</sub>	-40 ~ +95	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Lead Soldering Temperature	T <sub>sol</sub>	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 <sub>F</sub>	I <sub>F</sub> = 20mA	3.3	3.5	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V	---	---	10	μA
Dominant Wavelength	λ <sub>D</sub>	I <sub>F</sub> = 20mA	407	---	412	nm
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	225	230	245	mcd
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> = 20mA	---	20	---	deg

## Important Notes:

- 1) All ranks will be included per delivery.
- 2) Tolerance of measurement of luminous intensity is ±15%.
- 3) Tolerance of measurement of dominant wavelength is ±1nm.
- 4) Tolerance of measurement of forward voltage is ±0.05 V.

# Graphs

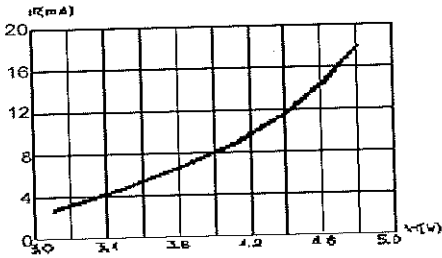


Fig. 1 Forward Current vs. Forward Voltage

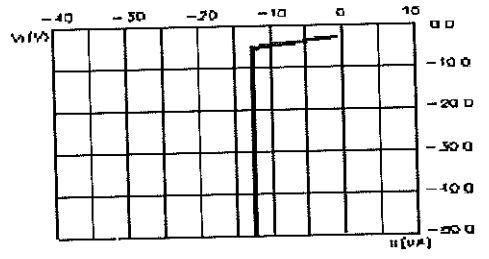


Fig. 2 Reverse Current vs. Reverse Voltage



Fig. 3 Relative Luminous Intensity vs. Forward Current

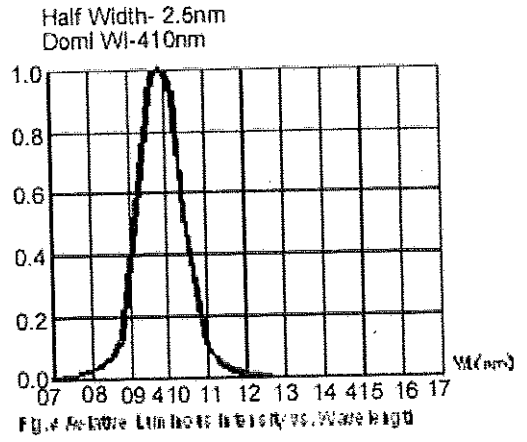


Fig. 4 Relative Luminous Intensity vs. Wave length

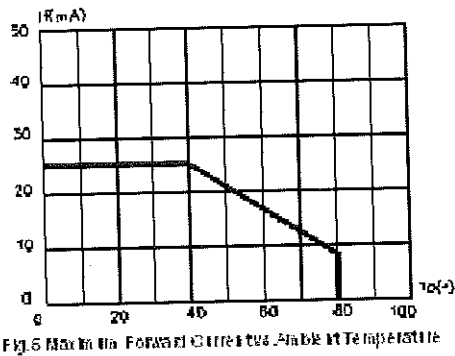


Fig. 5 Maximum Forward Current vs. Ambient Temperature

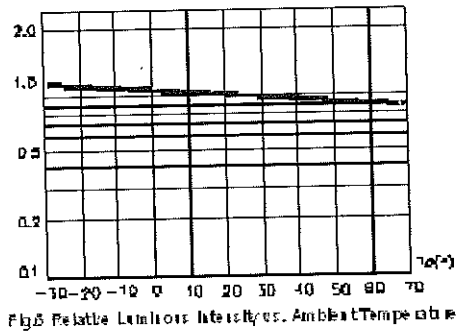


Fig. 6 Relative Luminous Intensity vs. Ambient Temperature

## Far Field Pattern

