

# SPECIFICATION FOR APPROVAL

Customer \_\_\_\_\_

Product Name SMD LED LAMP

Part No. XC-0603GVC

Customer Part No. \_\_\_\_\_

Date 2010-07-28

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APPROVED SIGNATURES

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**深圳市旋彩电子有限公司**

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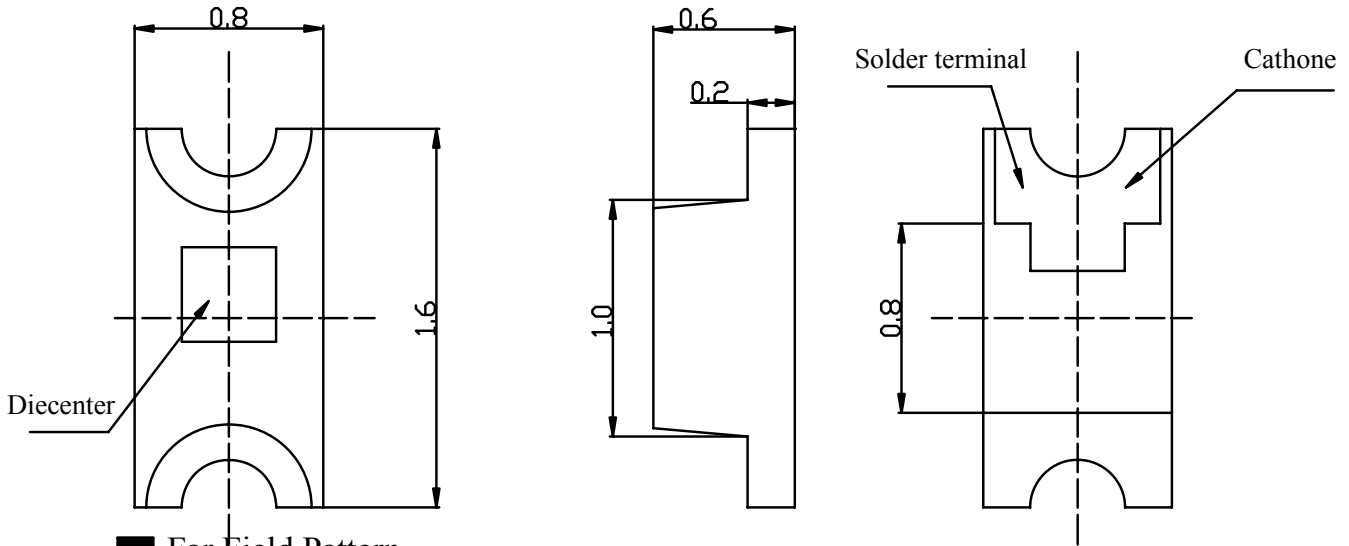
APPROVE	CHECK	DRAW

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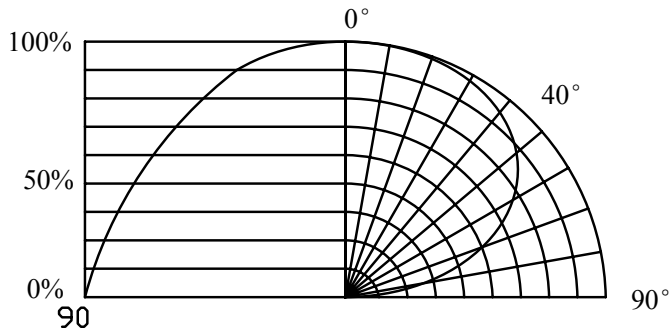
## ■ Features

1. Mono-color type
2. Demensions: 1.6(L)\*0.8(W)\*0.6(H)mm
3. Compatible with automatic equipment
4. Compatible with infrared and vapor phase reflow solder process

## ■ Dimension



## ■ Far Field Pattern



## ■ Descriptions

PART NO	Chip		Lens Color
	Material	Emitted Color	
XC-0603GVC	InGaN	Pure GREEN	WATER CLEAR

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■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Forward Current(DC)	I <sub>F</sub>	50	mA
Peak Forward Current*	I <sub>FP</sub>	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
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  $\leq$  0.1msec duty  $\leq$  1/10

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

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Power Dissipation	PD	IF = 20mA	---	64	---	mW
Forward Voltage	VF	IF = 20mA	2.8	---	3.6	V
Reverse Current	IR	VR = 5V	---	---	5	$\mu$ A
Dominant Wavelength	$\lambda$ D	IF = 20mA	515	---	530	nm
Luminous Intensity	IV	IF = 20mA	---	260	---	mcd
50% Power Angle	$2\theta_{\frac{1}{2}}$	IF = 20mA	---	120	---	Deg

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## ■ Typical Electrical/Optical Characteristics Curves ( $T_a=25^\circ$ Unless Otherwise Noted)

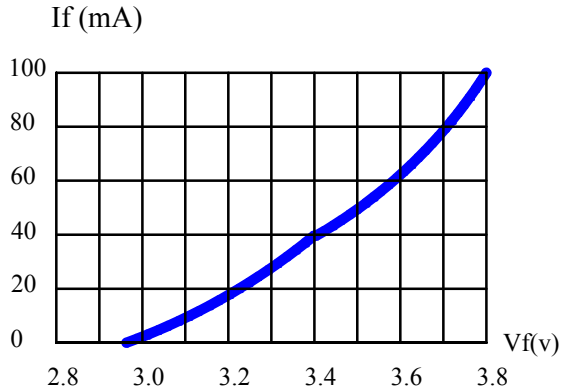


Fig. 1 Forward Current vs Forward Voltage

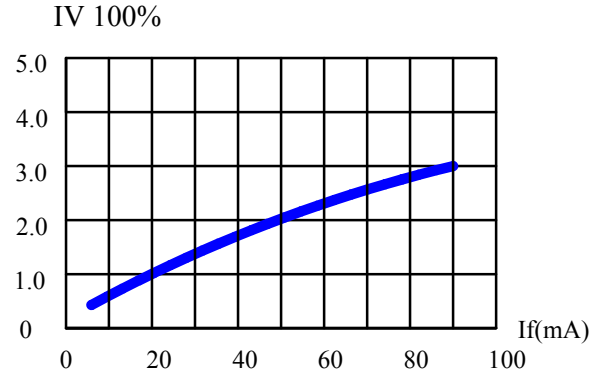


Fig. 2 Relative Luminous Intensity vs Forward Voltage

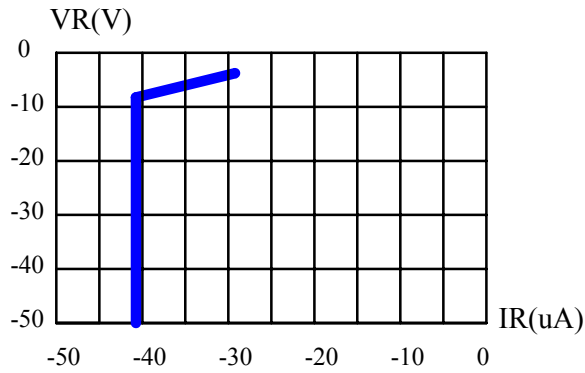


Fig. 3 Reverse Current vs Reverse Voltage

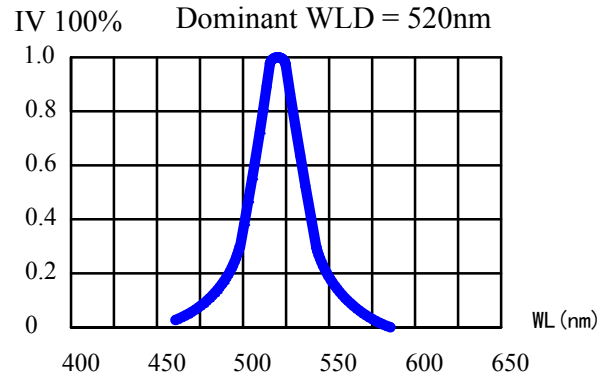


Fig. 4 Relative Luminous Intensity vs Wavelength

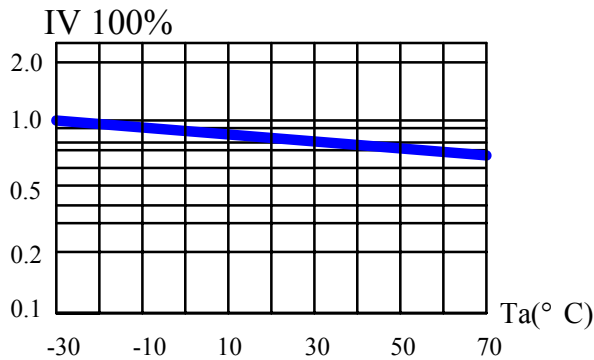


Fig. 5 Relative Luminous Intensity vs Ambient Temperature

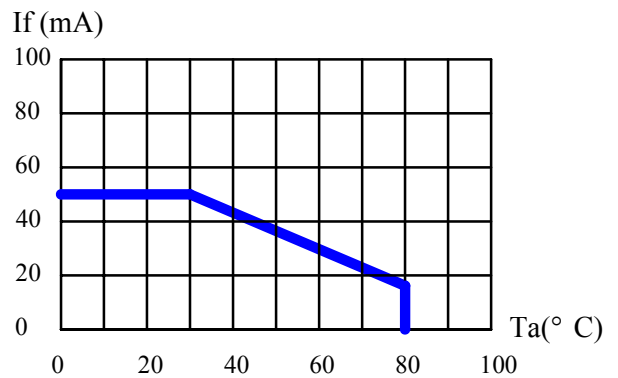


Fig. 6 Maximum Forward Current vs Ambient Temperature