T-1 (3mm) SOLID STATE LAMP

Part Number: WP710A10SGD5V

Super Bright Green

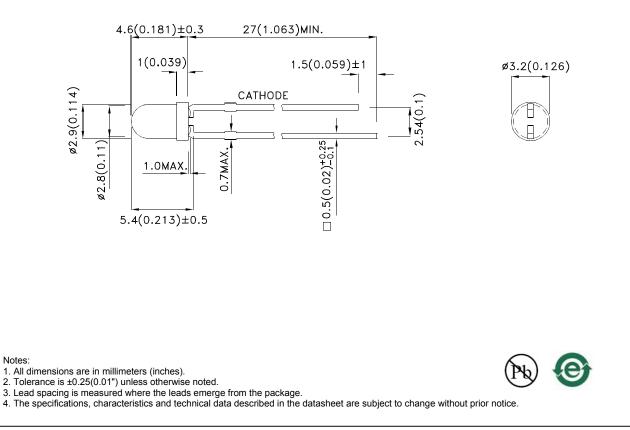
Features

- Low power consumption.
- Popular T-1 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.
- 5V internal resistor.
- RoHS compliant.

Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



REV NO: V.4B CHECKED: Allen Liu DATE: MAR/21/2013 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1101029231

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] V= 5V		Viewing Angle [1]
			Min.	Тур.	201/2
WP710A10SGD5V	Super Bright Green (GaP)	Green Diffused	10	25	40°

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Green	565		nm	VF=5V	
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	VF=5V	
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	VF=5V	
lf	Forward Current	Super Bright Green	11.5	17.5	mA	VF=5V	
IR	Reverse Current	Super Bright Green		10	uA	VR = 5V	

Notes:

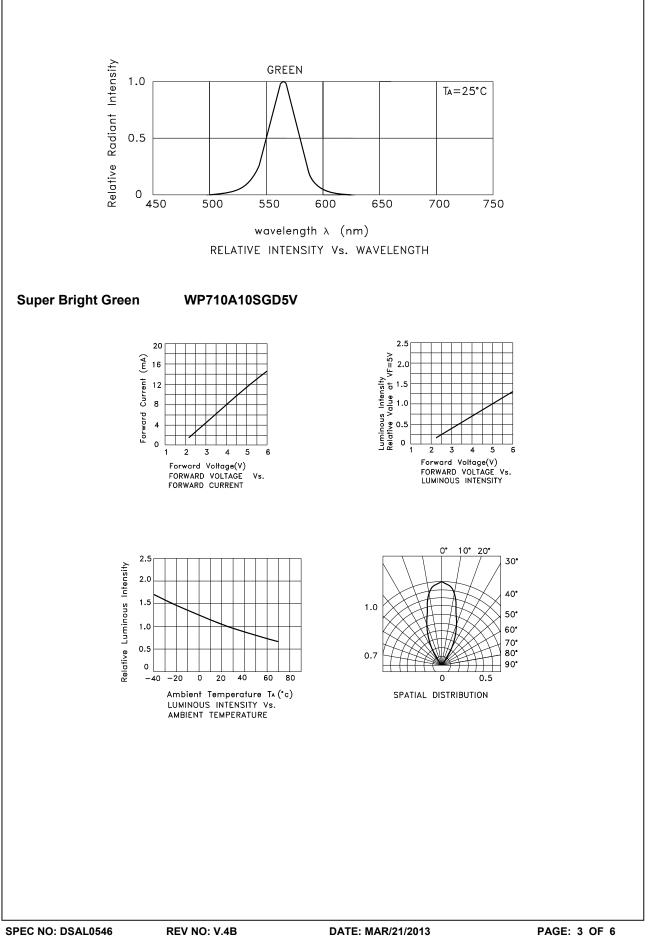
1.Wavelength: +/-1nm. 2.Wavelength value is traceable to the CIE127-2007 compliant national standards.

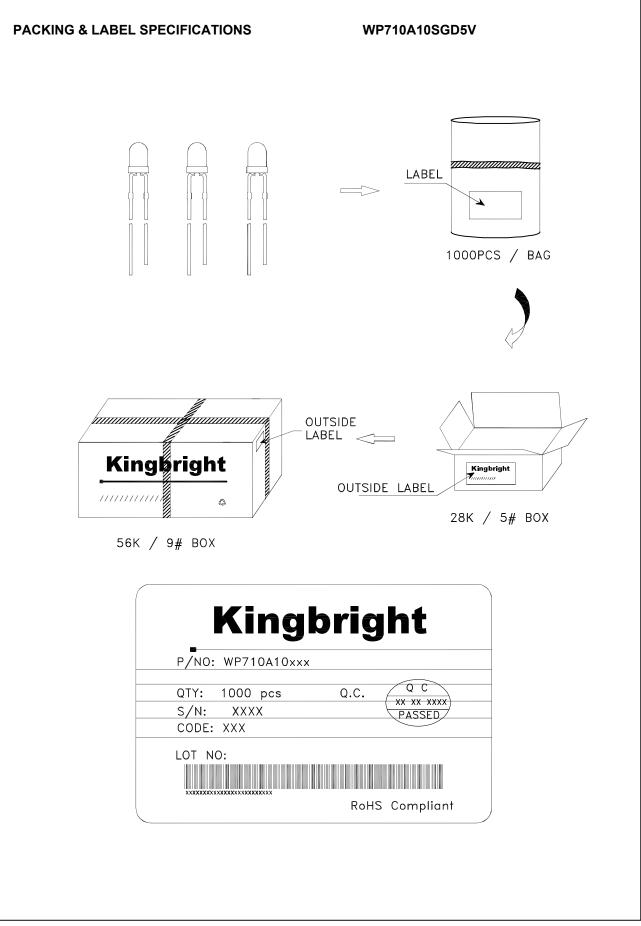
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Green	Units	
Power dissipation	85	mW	
Forward Voltage	6	V	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +70°C		
Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [1]	260°C For 3 Seconds		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

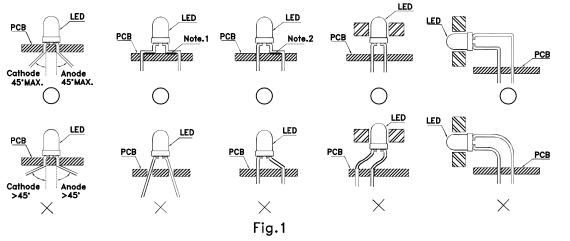
2. 5mm below package base.
2. 5mm below package base.





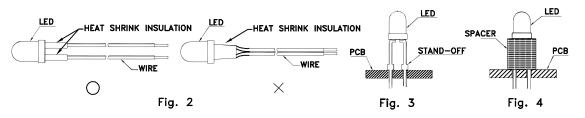
PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)

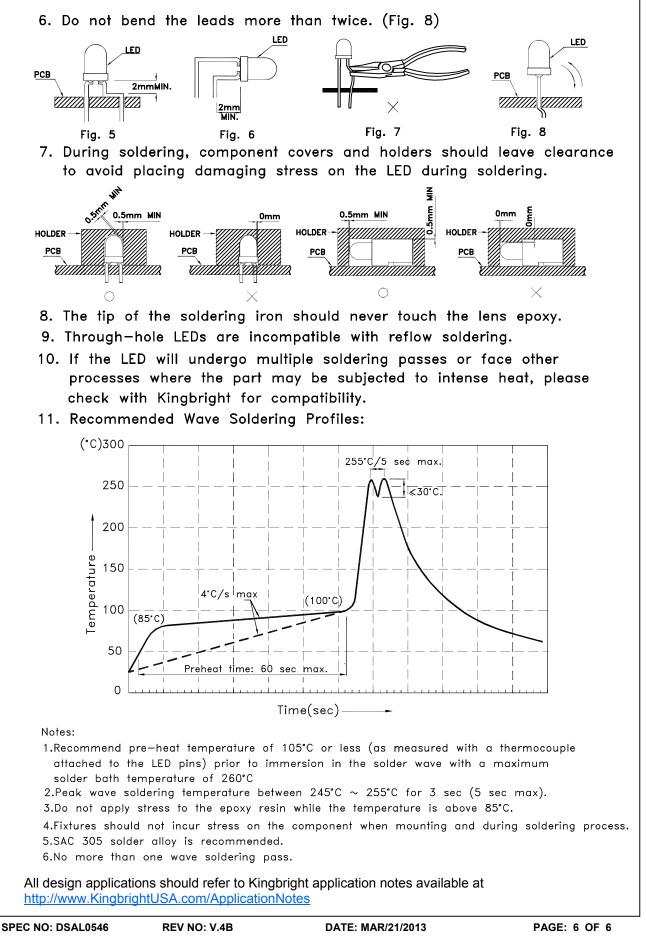


" \bigcirc " Correct mounting method "imes" Incorrect mounting method

- 2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



DRAWN: F.Cui

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