

### **Excellent Integrated System Limited**

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Kingbright WP710A10PGD

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#### T-1 (3mm) SOLID STATE LAMP

Part Number: WP710A10PGD

Pure Green

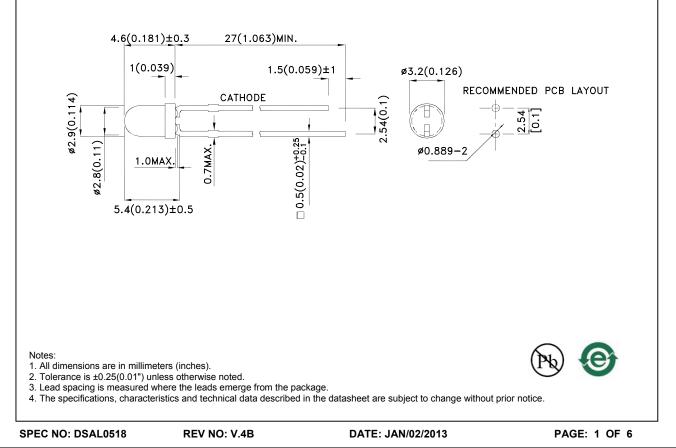
#### Features

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

Description

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

#### **Package Dimensions**





#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP710A10PGD	Pure Green (GaP)	Green Diffused	3	8	40°

Notes:

θ1/2 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	Pure Green	557		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Pure Green	557		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Pure Green	30		nm	I⊧=20mA
С	Capacitance	Pure Green	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Pure Green	2.25	2.5	V	l⊧=20mA
lr	Reverse Current	Pure Green		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

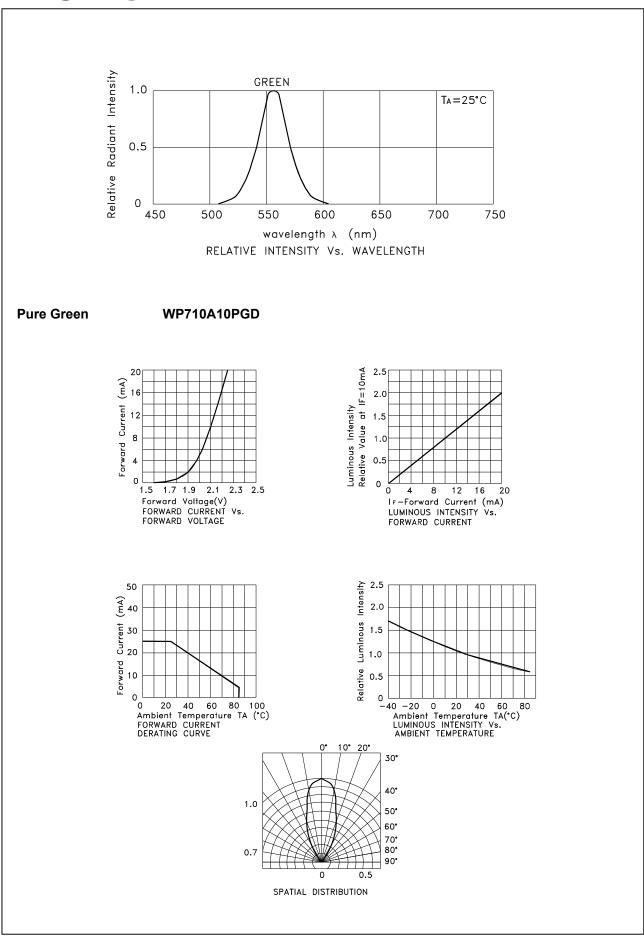
#### Absolute Maximum Ratings at TA=25°C

dissipation 62.5		
25		
135	mA	
5	V	
-40°C To +85°C		
260°C For 3 Seconds		
260°C For 5 Seconds		
	25 135 5 -40°C To +85°C 260°C For 3 Seconds	

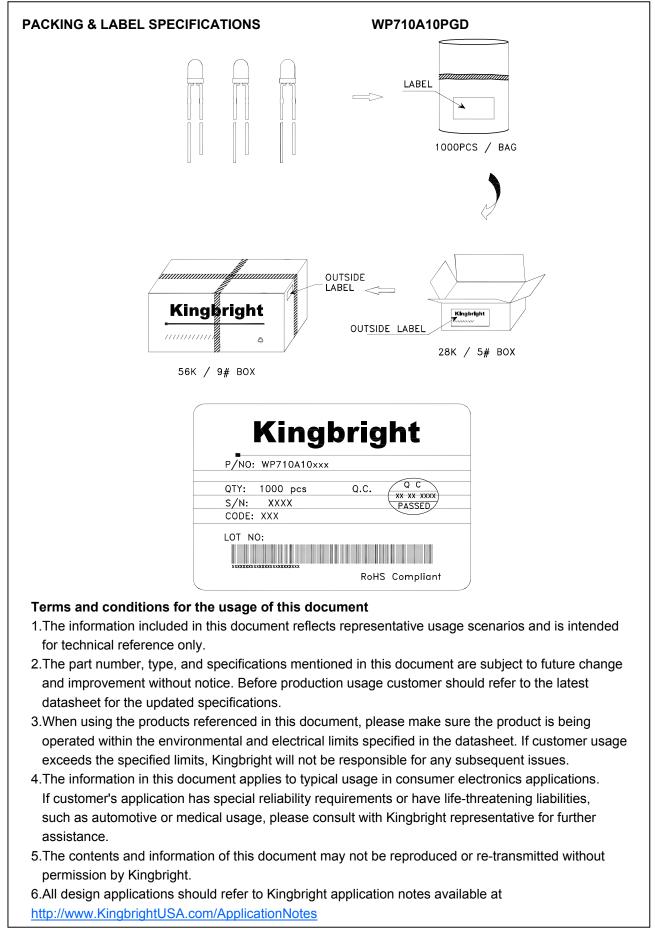
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.







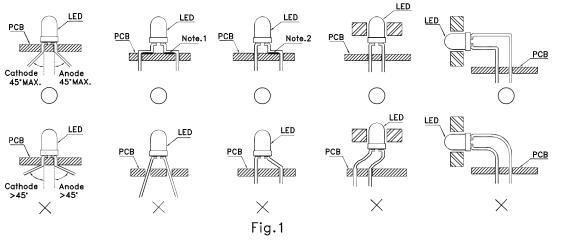


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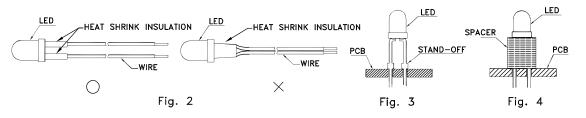
#### PRECAUTIONS

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)



) " 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 3mm 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)



