imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



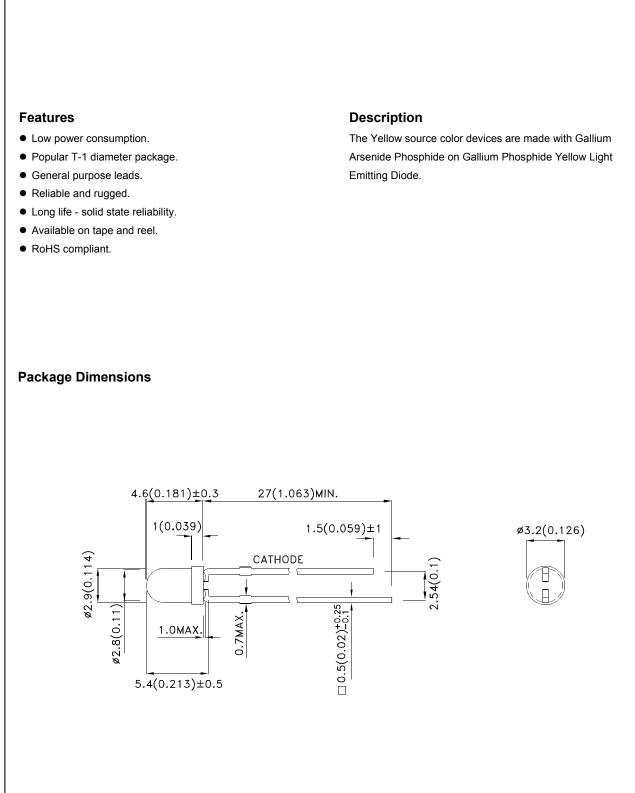
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T-1 (3mm) SOLID STATE LAMP

Part Number: WP710A10YC Yellow



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.25(0.01") unless otherwise noted.

Lead spacing is measured where the leads emerge from the package.
The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP710A10YC	Yellow (GaAsP/GaP)	Water Clear	10	30	34°

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. 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	Yellow	590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Yellow	588		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	I⊧=20mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Yellow	2.1	2.5	V	I⊧=20mA
lr	Reverse Current	Yellow		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

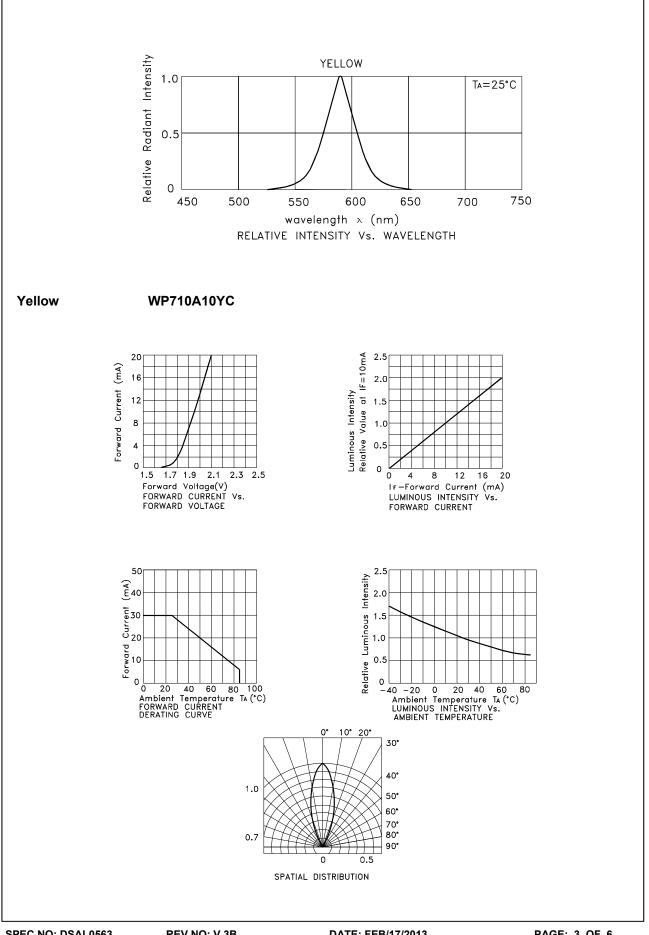
Parameter	Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

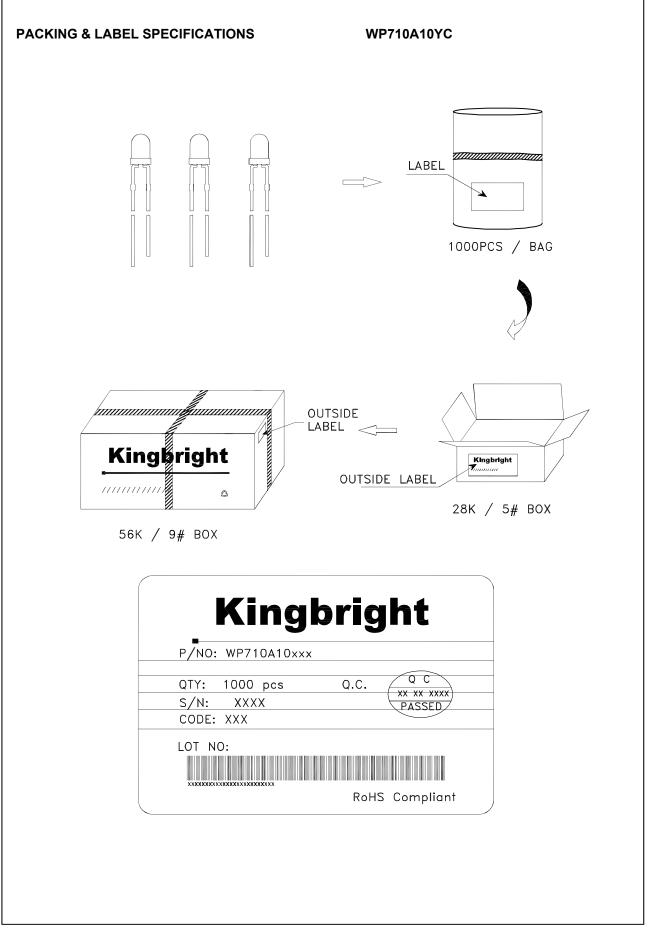
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.
3. 5mm below package base.

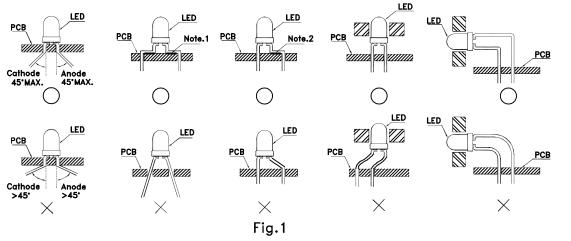
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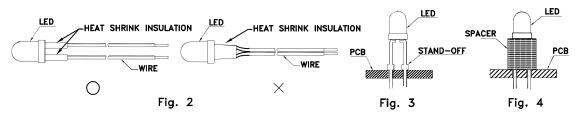
PRECAUTIONS

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)

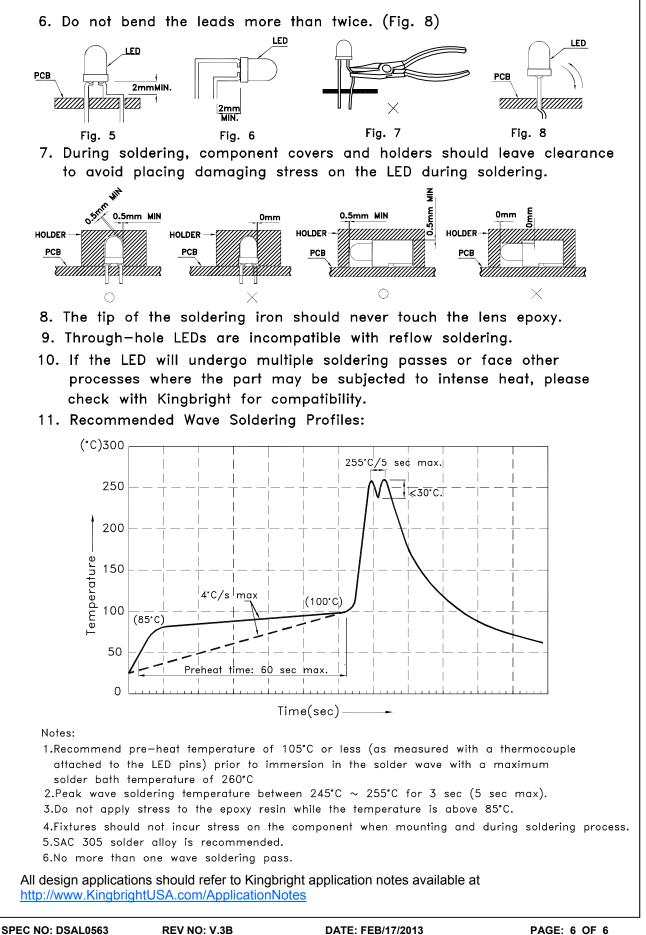


" \bigcirc " Correct mounting method "imes" Incorrect mounting method

- 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)



REV NO: V.3B CHECKED: Allen Liu DATE: FEB/17/2013 DRAWN: Y.Liu