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Kingbright WP908A8ND

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T-1 (3mm) SOLID STATE LAMP

Part Number: WP908A8ND

Pure Orange

Features

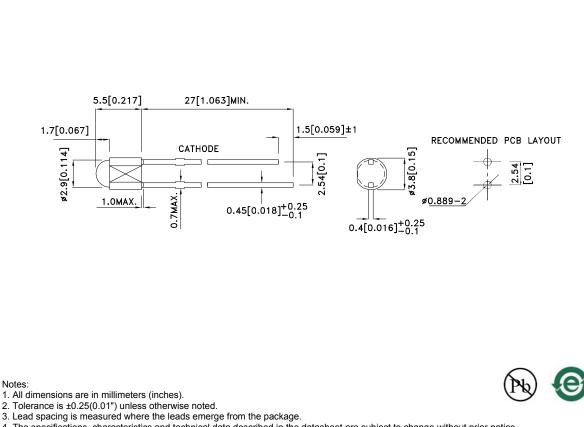
- Low power consumption.
- Popular T-1 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life-solid state reliability.
- Available on tape and reel.

Package Dimensions

RoHS compliant.

Description

The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange Light Emitting Diode.



Notes:

4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min. Typ.		201/2
WP908A8ND	Pure Orange (GaAsP/GaP)	Orange Diffused	10	25	80°
			*4	*10	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity/ luminous Flux: +/-15%.
* 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 Orange	607		nm	IF=20mA
λD [1]	Dominant Wavelength	Pure Orange	602		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Pure Orange	35		nm	IF=20mA
С	Capacitance	Pure Orange	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Pure Orange	2.05	2.5	V	IF=20mA
IR	Reverse Current	Pure Orange		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

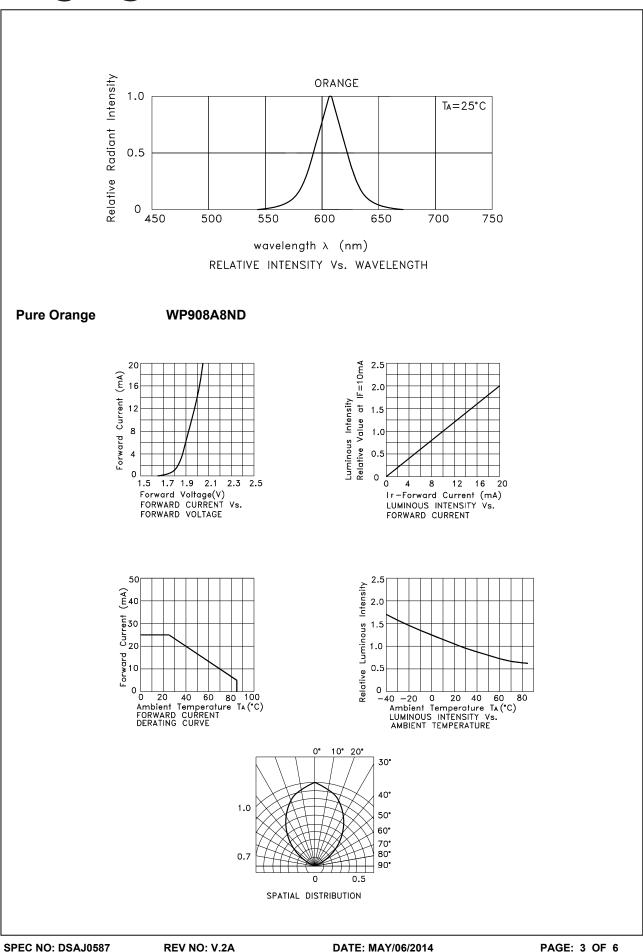
Parameter	Pure Orange	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	145	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

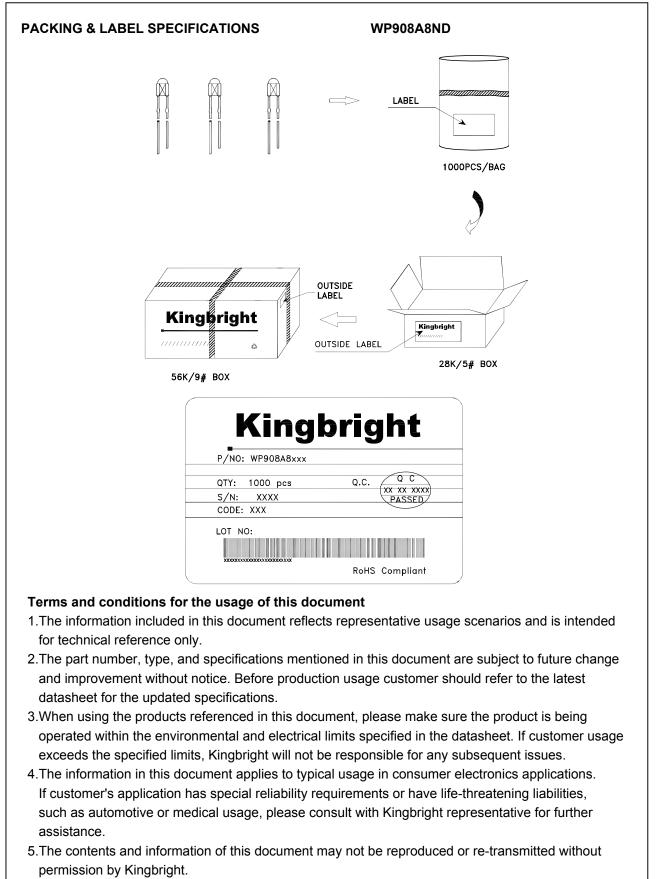
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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







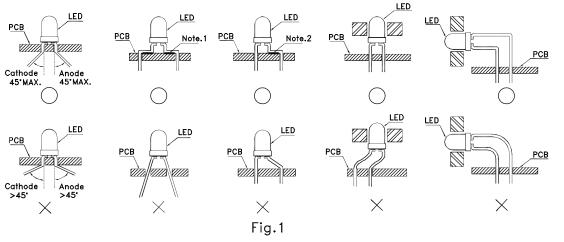


6.All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes



PRECAUTIONS

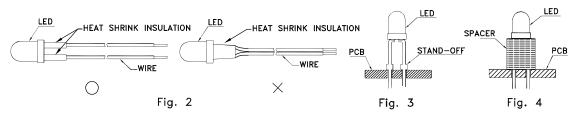
1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



) " Correct mounting method "imes" Inco

d "imes" Incorrect mounting method

- 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)



