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.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



T-1 (3mm) SOLID STATE LAMP

Part Number: WP710A10SRD5V Super Bright Red

Features Description • Low power consumption. The Super Bright Red source color devices are made with • Popular T-1 diameter package. Gallium Aluminum Arsenide Red Light Emitting Diode. • General purpose leads. • Reliable and rugged. • Long life - solid state reliability. • Available on tape and reel. • 5V internal resistor. RoHS compliant. **Package Dimensions** 4.6(0.181)±0.3 27(1.063)MIN. 1(0.039) 1.5(0.059)TYP. ø3.2(0.126) ø2.9(0.114) CATHODE 54(0.1) ø2.8(0.11) 0.5(0.02) .7MAX. **1.0MAX** ം 5.4(0.213)±0.5 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.

SPEC NO: DSAL0554 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: MAR/05/2011 DRAWN: J.Yu PAGE: 1 OF 6 ERP: 1101029221

Selection Guide

Part No.	Dice Lens Type Iv (mcd) [2] V= 5V		/ - -	Viewing Angle [1]	
			Min.	Тур.	201/2
WP710A10SRD5V	Super Bright Red (GaAlAs)	Red Diffused	100	180	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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	VF=5V
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	VF=5V
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	VF=5V
lf	Forward Current	Super Bright Red	13	17.5	mA	VF=5V
lr	Reverse Current	Super Bright Red		10	uA	VR = 5V

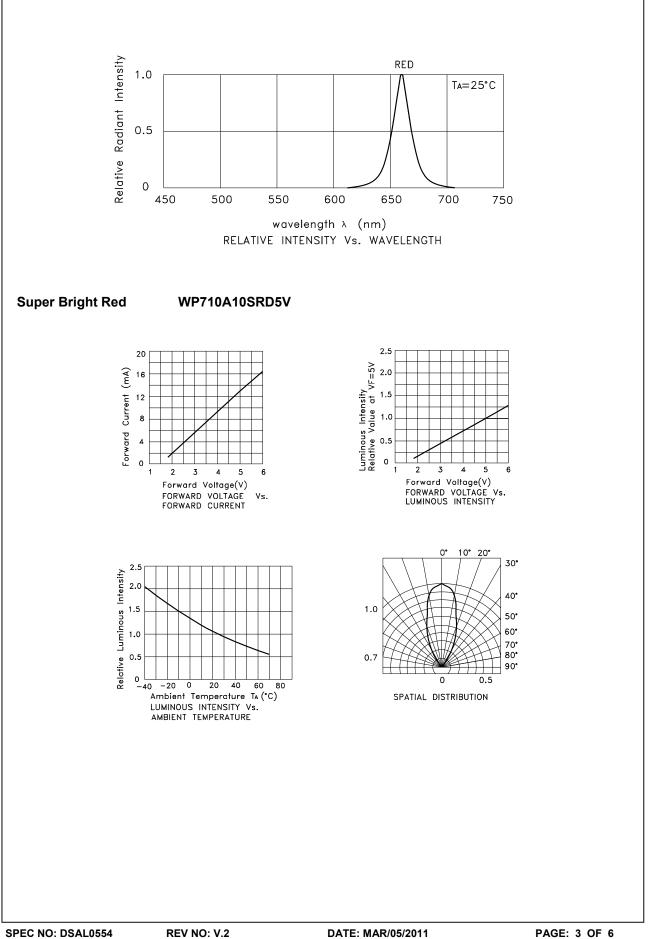
Note: 1.Wavelength: +/-1nm.

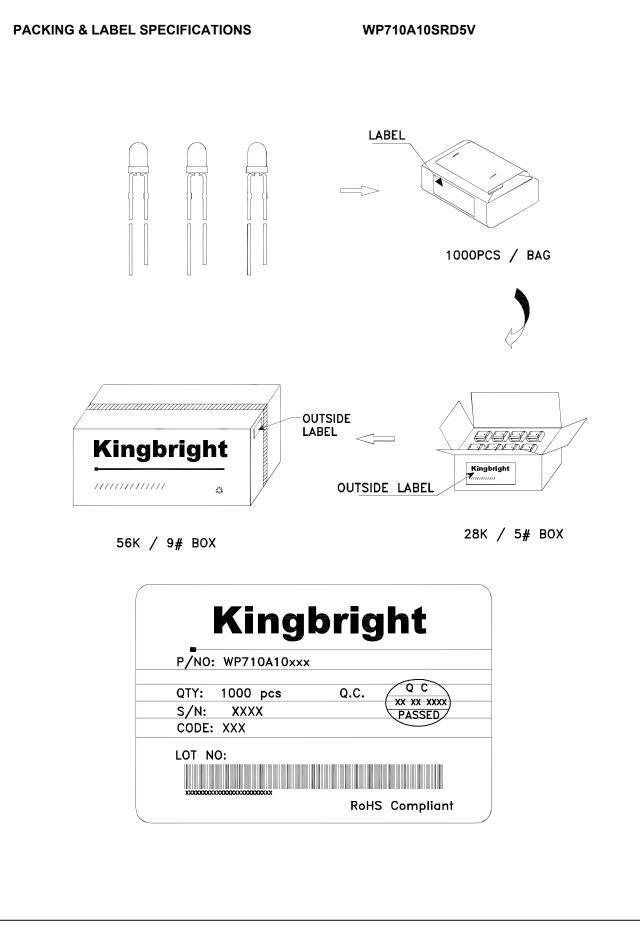
Absolute Maximum Ratings at TA=25°C

Super Bright Red		
85		
6 V		
5	V	
-40°C To +70°C		
-40°C To +85°C		
260°C For 3 Seconds		
260°C For 5 Seconds		
	85 6 5 -40°C To +70°C -40°C To +85°C 260°C For 3 Seconds	

Notes:

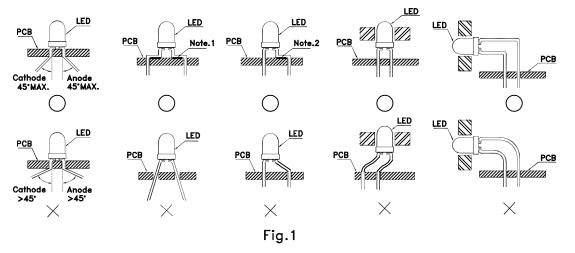
2mm below package base.
5mm below package base.



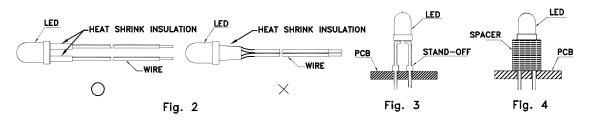


PRECAUTIONS

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)



- \supset " Correct mounting method "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 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)

