# 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



#### 4.7mm HOUSING FOR LED LAMP WITH WIRE

Part Number: WP1533AA/GD-W152 Green

#### **Features** Description • Outstanding material efficiency. The Green source color devices are made with Gallium Reliable and rugged. Phosphide Green Light Emitting Diode. • Low current capability. • Housing UL rating:94V-0. • Housing material: type 66 nylon. • RoHS compliant. **Package Dimensions** Fig.1 : ANODE LEAD :RED INSULATION LEAD ,24 AWG ,UL#1007,ø1.45mm, TINNED OVERCOATED WIRE , STRIP 12.7mm. Fig. 2 : CATHODE LEAD :BLACK INSULATION LEAD ,24 AWG,UL#1007 ,ø1.45mm, TINNED OVERCOATED WIRE , STRIP 12.7mm. Fig.3 : STAKING TO FIX THE HOLDER AND LED . .236] 6[.024] .157] 0.9[.035] ø6[. , , , , , , , Fig.1 022 .9[.272 0 49 Fig.2 12.7[.5] TYP 152.4[6.0]TYP. 11.2[.441] 4[.157]±0.3 Remark: Recommended panel mount hole diameter $\varphi$ =6.30-6.35mm; panel thickness 1.0mm. 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: DSAE9974 **REV NO: V.5** DATE: APR/07/2011 PAGE: 1 OF 5

CHECKED: Allen Liu

**APPROVED: WYNEC** 

DATE: APR/07/2011 DRAWN: J.Yu PAGE: 1 OF 5 ERP: 1102000741

#### Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Тур.	201/2
WP1533AA/GD-W152	Green (GaP)	Green Diffused	20	50	60°

Notes:

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

2. Luminous intensity/ luminous Flux: +/-15%.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	I⊧=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.2	2.5	V	I⊧=20mA
lr	Reverse Current	Green		10	uA	VR = 5V

Notes:

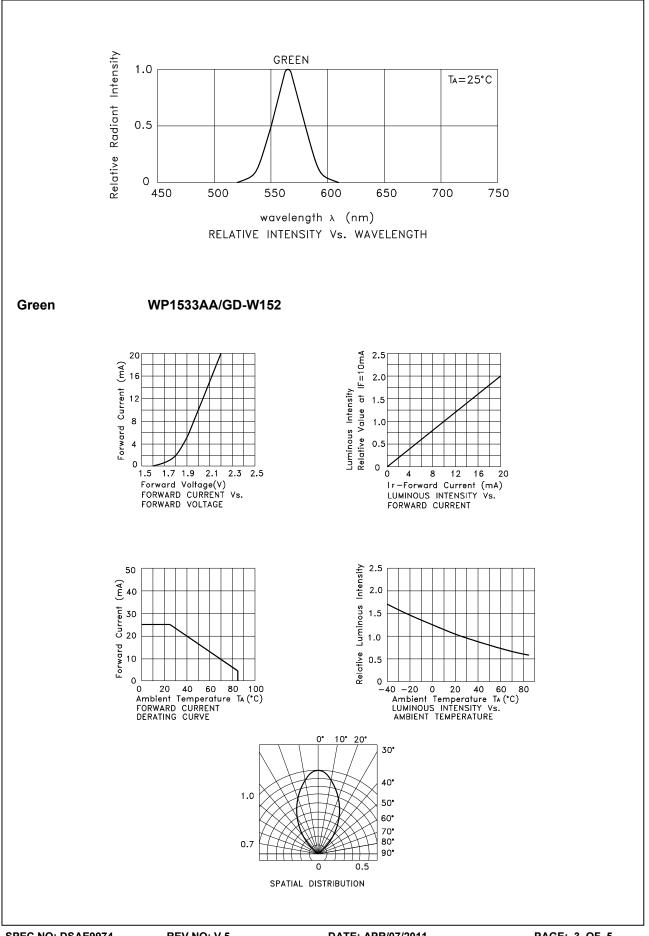
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

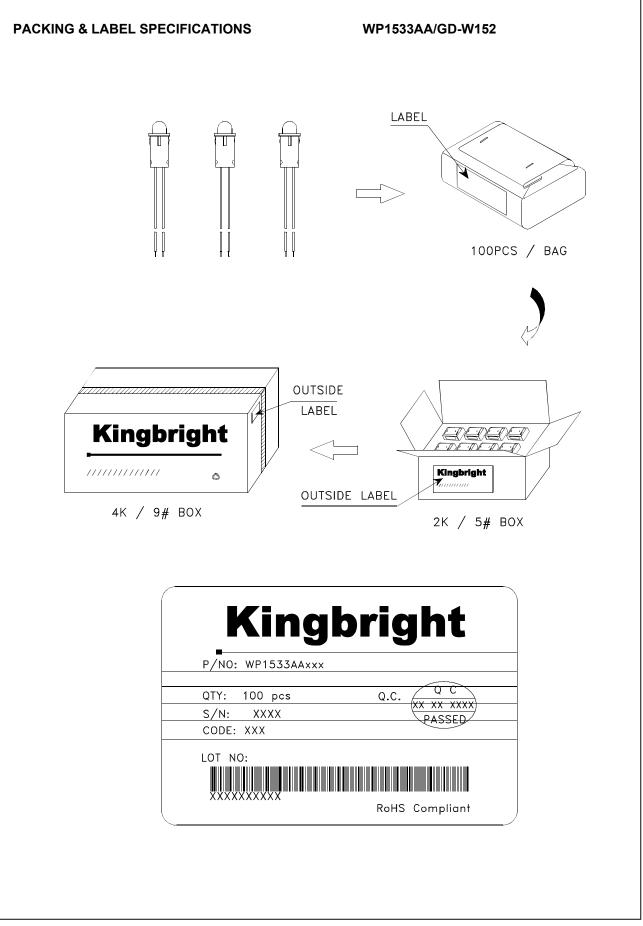
#### Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units		
Power dissipation	62.5	mW		
DC Forward Current	25	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:

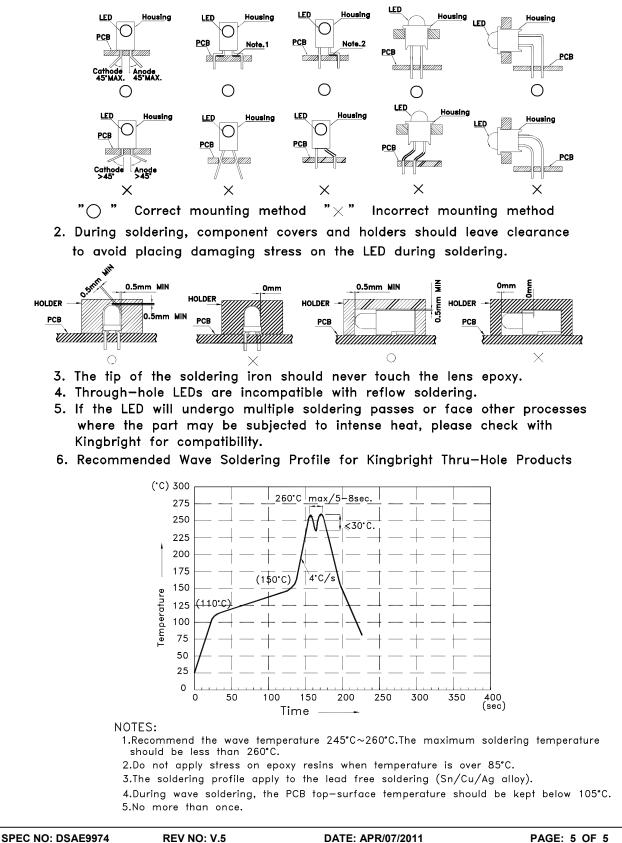
1.1/10 Duty Cycle, 0.1ms Pulse Width.
2.2mm below package base.
3.5mm below package base.





#### 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.



DATE: APR/07/2011 DRAWN: J.Yu