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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4.7mm HOUSING FOR LED LAMP WITH WIRE

Part Number: WP1533AA/GD14V-W152 Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- Outstanding material efficiency.
- Reliable and rugged.
- Low current capability.
- Housing UL rating: 94V-0.
- Housing material: type 66 nylon.
- 14V internal resistor.
- RoHS compliant.

Description

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

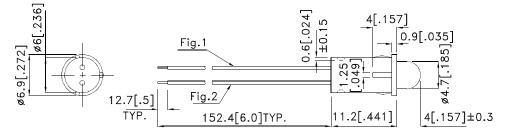
Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.



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 .

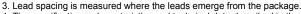


Remark: Recommended panel mount hole diameter ϕ =6.30-6.35mm; panel thickness 1.0mm.

Notes:

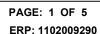
1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.



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

DATE: AUG/30/2013 DRAWN: Y.Liu



Salaatian Cuida

| Part No. | Dice Lens Type Iv (mcd) [2] V= 14V | | <i>,</i> - - | Viewing Angle [1] | |
|---------------------|---------------------------------------|----------------|---------------------|----------------------|-------|
| | | | Min. | Тур. | 201/2 |
| WP1533AA/GD14V-W152 | Green (GaP) | Green Diffused | 10 | 25 | 60° |

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 | Green | 565 | | nm | VF=14V |
| λD [1] | Dominant Wavelength | Green | 568 | | nm | VF=14V |
| Δλ1/2 | Spectral Line Half-width | Green | 30 | | nm | VF=14V |
| lf | Forward Current | Green | 10.5 | 13.5 | mA | VF=14V |
| lr | Reverse Current | Green | | 10 | uA | VR = 5V |

Note:

Wavelength: +/-1nm.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

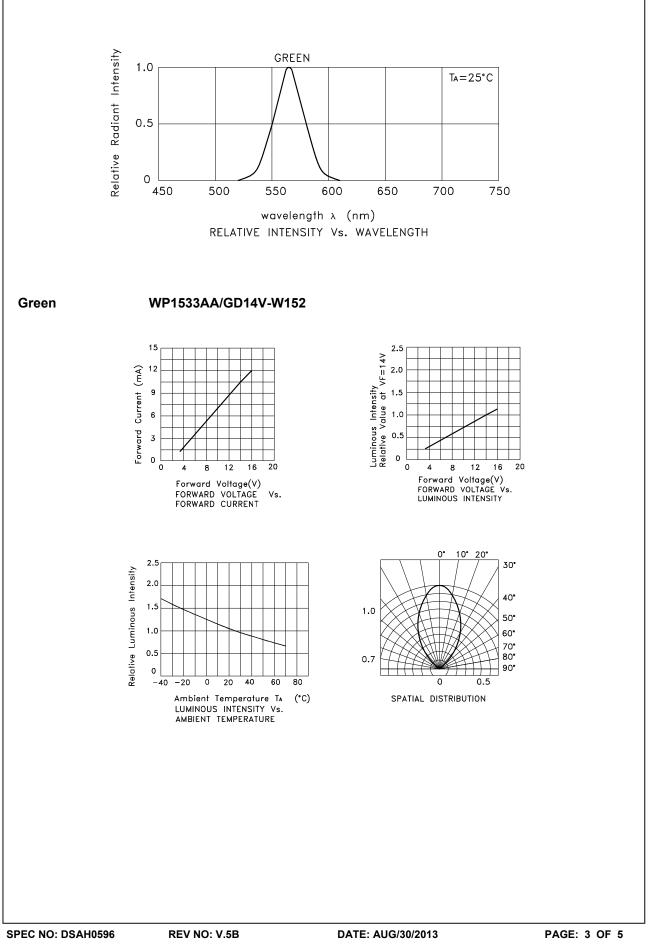
Absolute Maximum Ratings at TA=25°C

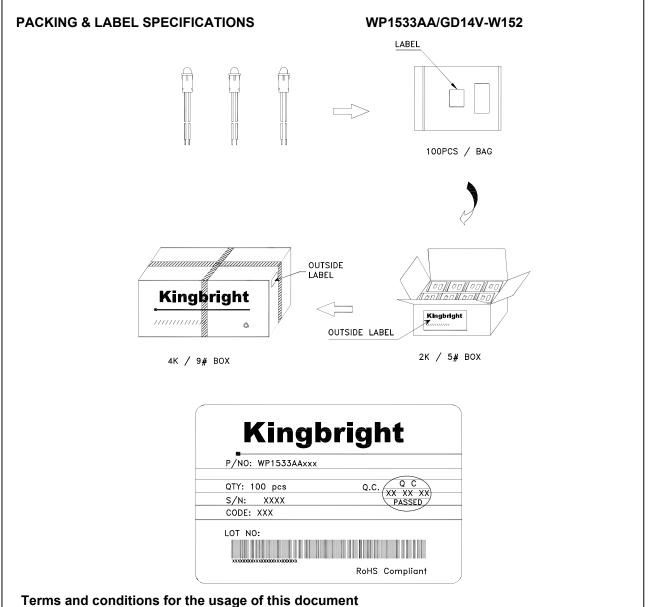
| Parameter | Green | Units | |
|-----------------------------|---------------------|-------|--|
| Power dissipation | 160 | mW | |
| Forward Voltage | 16 V | | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +70°C | | |
| Storage Temperature | -40°C To +85°C | | |
| Lead Solder Temperature [1] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | | |

Notes:

1. 2mm below package base. 2. 5mm below package base.

SPEC NO: DSAH0596

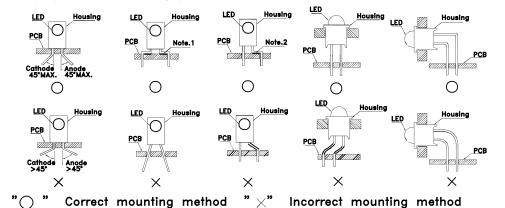




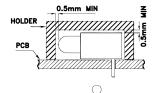
- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
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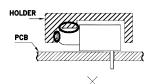
PRECAUTIONS

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.



2. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.





- 3. The tip of the soldering iron should never touch the lens epoxy.
- 4. Through-hole LEDs are incompatible with reflow soldering.
- 5. If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
- 6. Recommended Wave Soldering Profiles:

