imall

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4.7mm HOUSING FOR LED LAMP WITH WIRE



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES Part Number: WP1533AA/SRD14V-W152

Super Bright Red

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

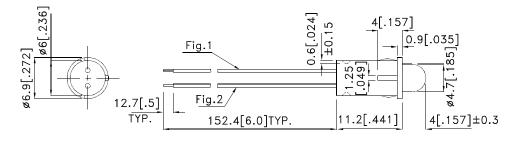
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode. Static electricity and surge damage the LEDS.

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 .

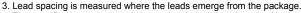


Remark: Recommended panel mount hole diameter ϕ =6.30-6.35mm; panel thickness 1.0mm.

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±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	lv (mcd) [2] V= 14V		Viewing Angle [1]
			Min. Ty	Тур.	201/2
WP1533AA/SRD14V-W152	Surger Dright Dad (CaAlAa)	Red Diffused	150	300	60°
	Super Bright Red (GaAlAs)		*50	*100	

Notes:

1. 61/2 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	Super Bright Red	655		nm	VF=14V
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	VF=14V
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	VF=14V
lf	Forward Current	Super Bright Red	10.5	13.5	mA	VF=14V
IR	Reverse Current	Super Bright Red		10	uA	VR = 5V

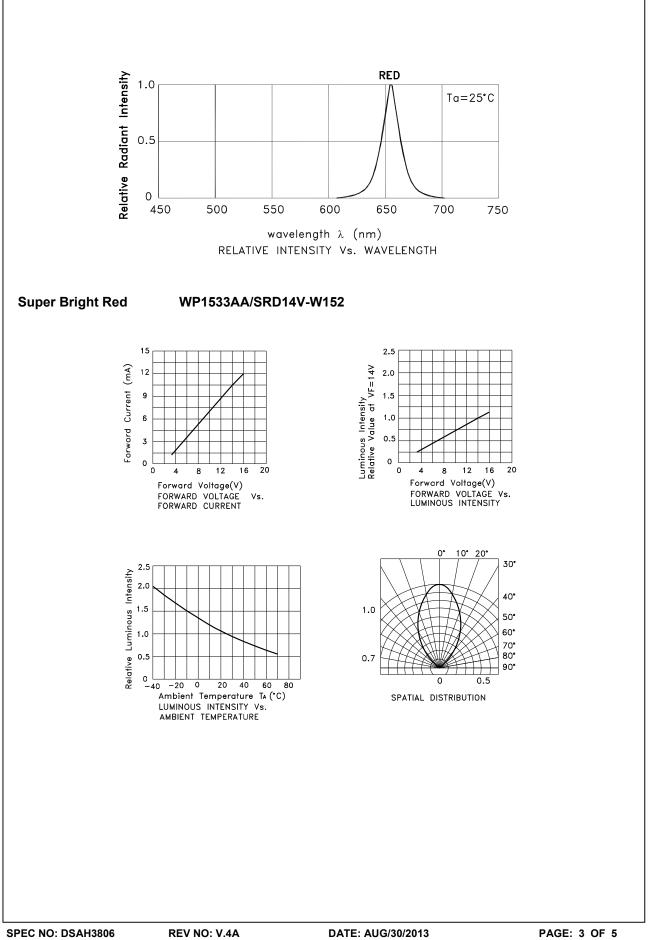
Notes: 1.Wavelength: +/-1nm. 2.Wavelength value is traceable to the CIE127-2007 compliant national standards.

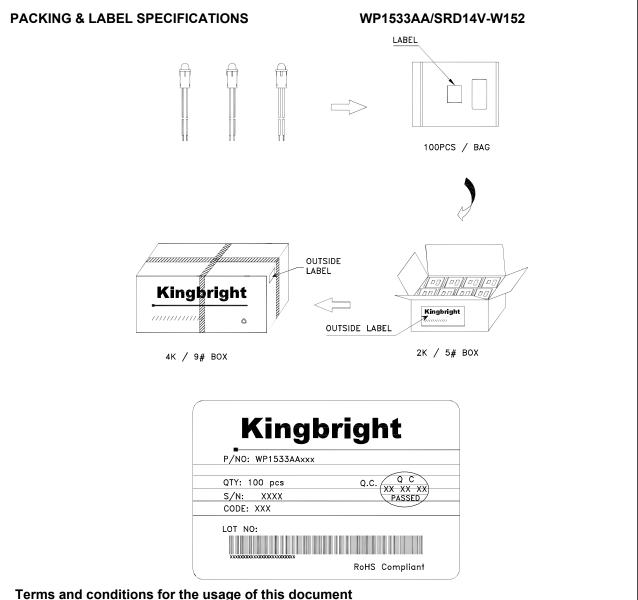
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	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:

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

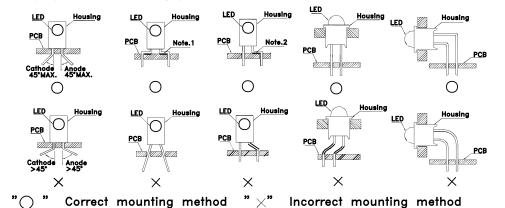




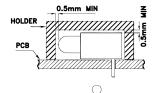
- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer 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.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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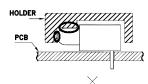
PRECAUTIONS

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:

