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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3.4mm RIGHT ANGLE LED INDICATOR

Part Number: WP1384AD/SRD Super Bright Red

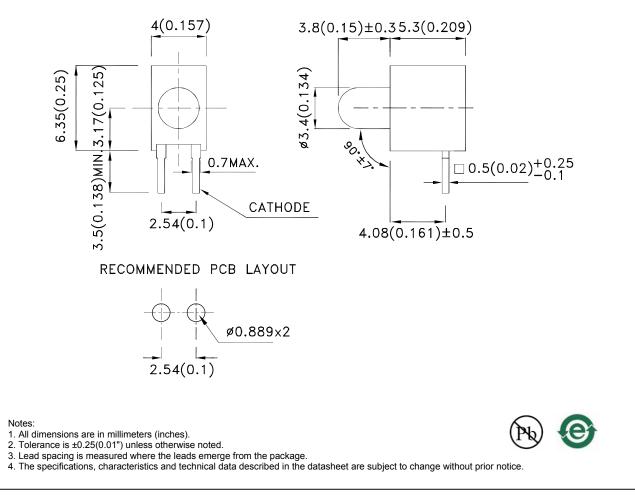
Features

- Ideal for card edge status indication.
- Wide viewing angle.
- High reliability-life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



REV NO: V.5A CHECKED: Allen Liu DATE: APR/152015 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1102000392

Selection Guide

Selection Guide					
Part No.	Dice	Lens Type @ 20mA			Viewing Angle [1]
			Min.	Тур.	201/2
WP1384AD/SRD	Super Pright Red (CoAlAs)	Red Diffused	150	300	60°
WP 1364AD/SRD	Super Bright Red (GaAlAs)	Red Dilused	*40	*90	

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	Super Bright Red	655		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Red		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.

Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

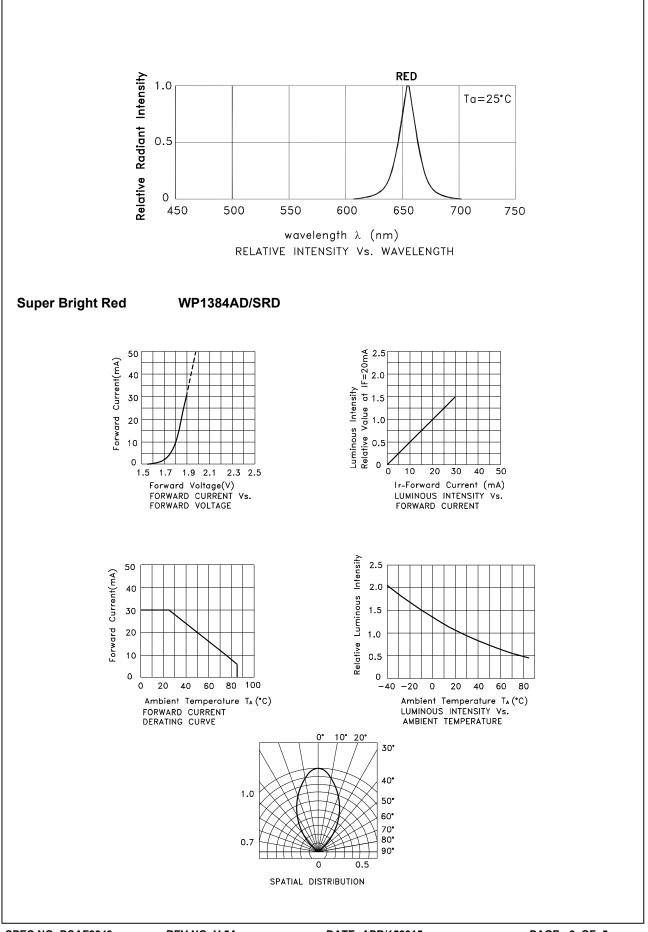
Parameter	Super Bright Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

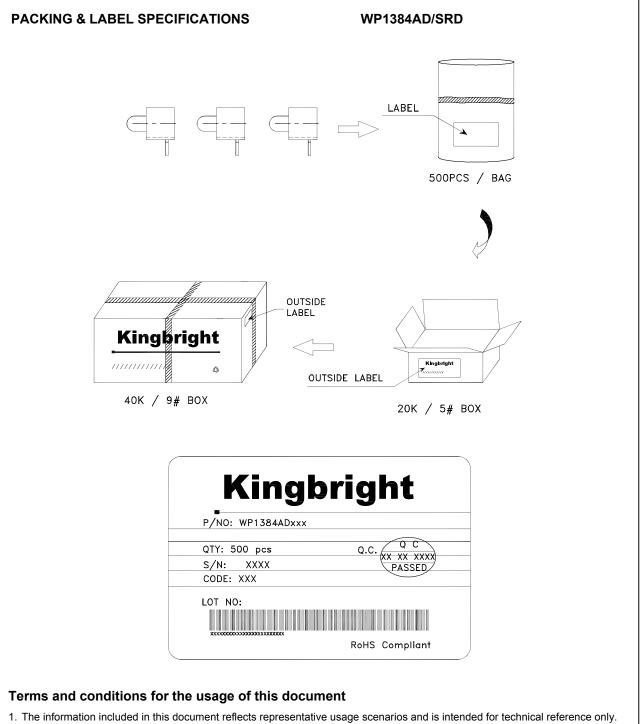
Notes:

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

2. 2mm below package base.

3. 5mm below package base.





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

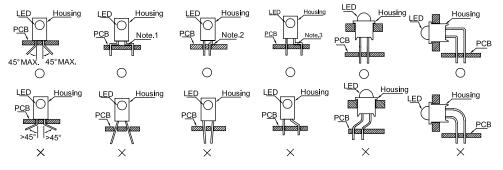
DATE: APR/152015 DRAWN: Q.M.Chen

PRECAUTIONS

1. Storage conditions:

a.Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

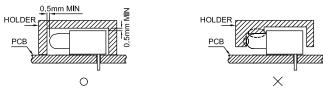
- b.LEDs should be stored with temperature $\leq 30^{\circ}$ C and relative humidity < 60%.
- c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85 ~ 100°C.
- The lead 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.



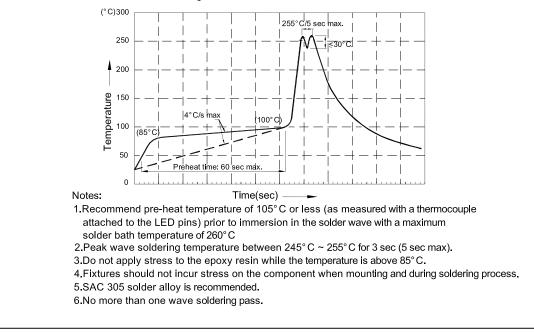
" () " Correct mounting method " imes " Incorrect mounting method

Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

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



- 4. The tip of the soldering iron should never touch the lens epoxy.
- 5. Through-hole LEDs are incompatible with reflow soldering.
- 6. 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.
- 7. Recommended Wave Soldering Profiles:



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