imall

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T-1 (3mm) RIGHT ANGLE LED INDICATOR

Part Number: WP934EW/ID

High Efficiency Red

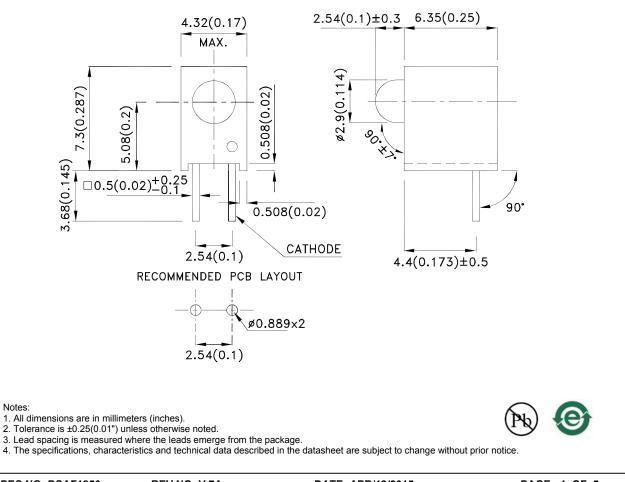
Features

- Pre-trimmed leads for pc mounting.
- Black case enhances contrast ratio.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



SPEC NO: DSAF1856 APPROVED: WYNEC REV NO: V.7A CHECKED: Allen Liu DATE: APR/13/2015 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1102013067

Selection Guide Viewing lv (mcd) [2] @ 10mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 12 30 WP934EW/ID High Efficiency Red (GaAsP/GaP) Red Diffused 40° *10 *20

Notes:

1. 01/2 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	High Efficiency Red	627		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	617		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red	2	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

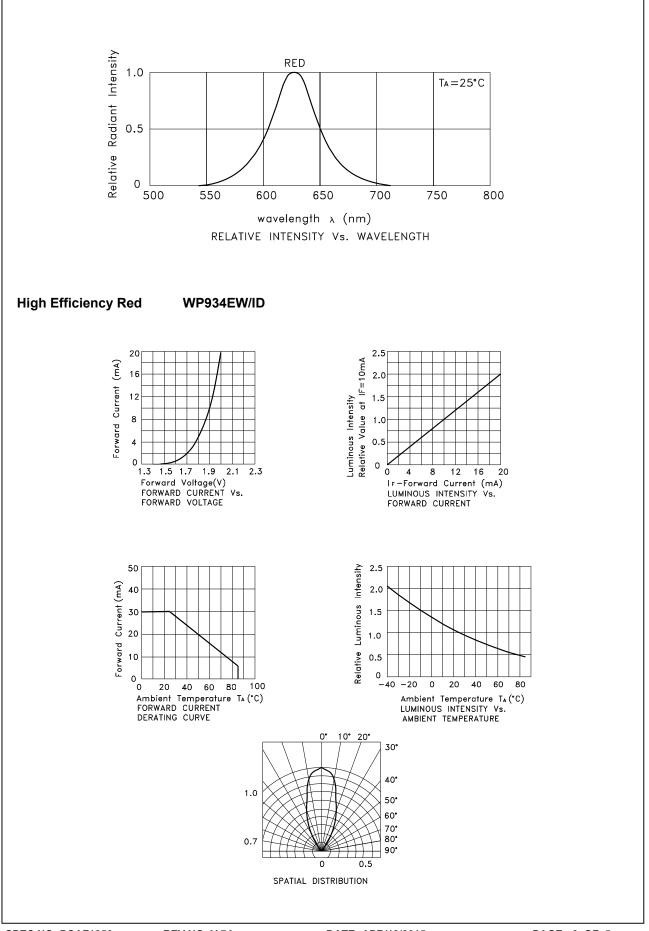
Absolute Maximum Ratings at TA=25°C

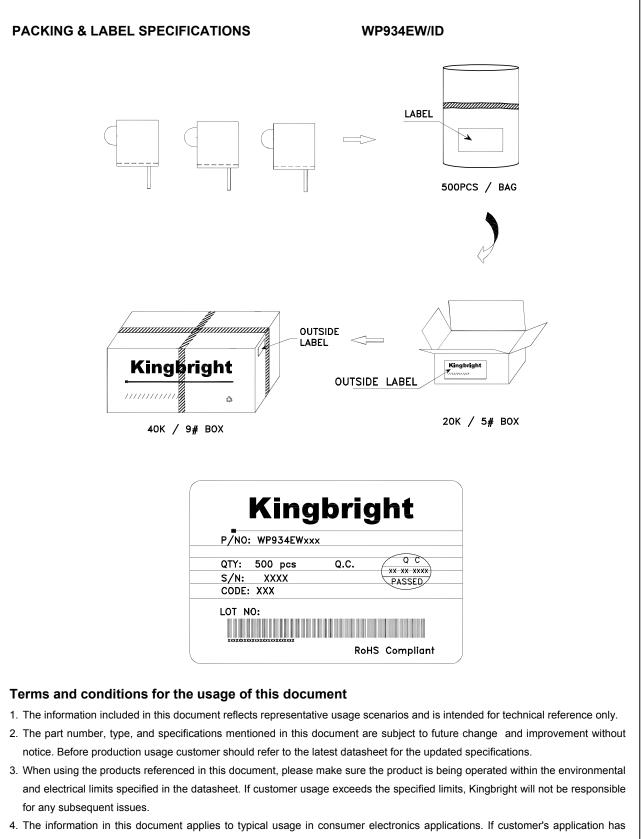
High Efficiency Red			
75			
30			
160	mA		
5	V		
-40°C To +85°C			
ead Solder Temperature [2] 260°C For 3 Seconds			
ad Solder Temperature [3] 260°C For 5 Seconds			
	75 30 160 5 -40°C To +85°C 260°C For 3 Seconds		

Notes:

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

2. 2mm below package base.
3. 5mm below package base.





- special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

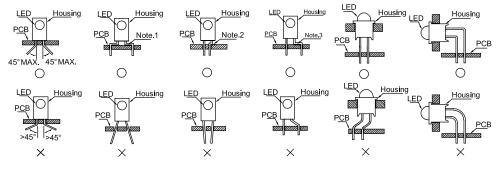
DATE: APR/13/2015 DRAWN: Q.M.Chen

PRECAUTIONS

1. Storage conditions:

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

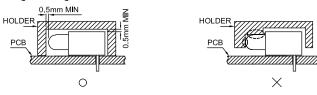
- b.LEDs should be stored with temperature $\leq 30^{\circ}$ C and relative humidity < 60%.
- c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85 ~ 100°C.
- 2. The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



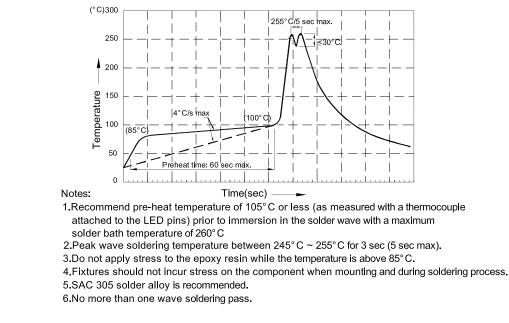
" () " Correct mounting method " imes " Incorrect mounting method

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

3. 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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