

Part Number: WP7104ALUP/2SRD-0L

Super Bright Red

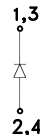
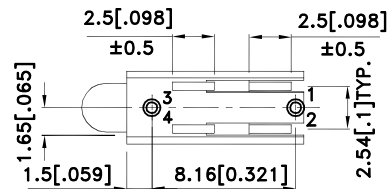
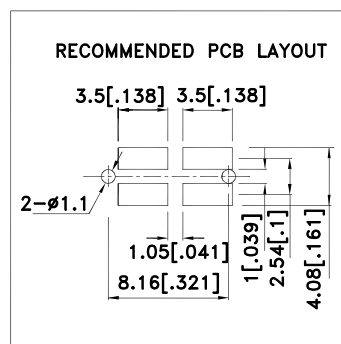
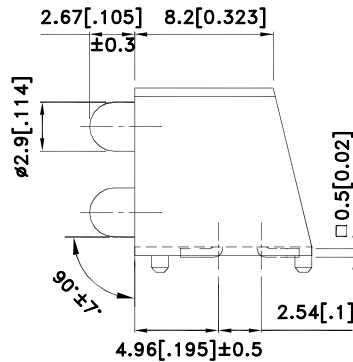
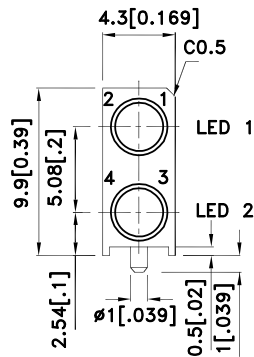
Features

- Black case enhances contrast ratio.
- Wide viewing angle.
- High reliability life measured in years.
- Housing material: PPA.
- High temperature resistant housing.
- High glass transition temperature epoxy.
- RoHS compliant.

Description

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

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7104ALUP/2SRD-0L	Super Bright Red (GaAlAs)	Red Diffused	150	400	40°

Notes:

1. θ1/2 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	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		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
C	Capacitance	Super Bright Red	45		pF	Vf=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	If=20mA
IR	Reverse Current	Super Bright Red		10	uA	VR=5V

Notes:

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

Absolute Maximum Ratings at TA=25°C

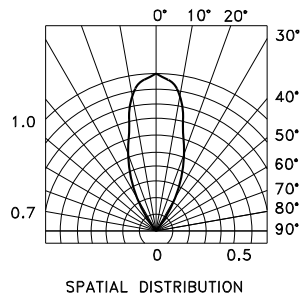
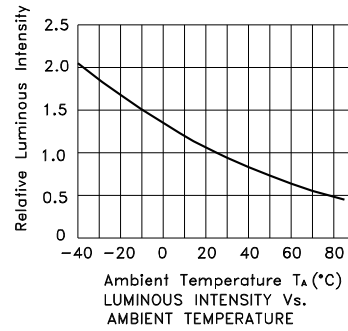
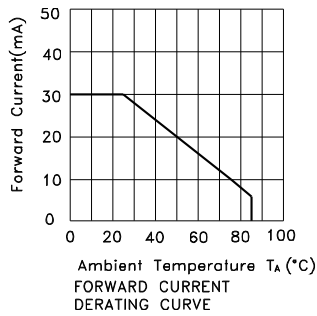
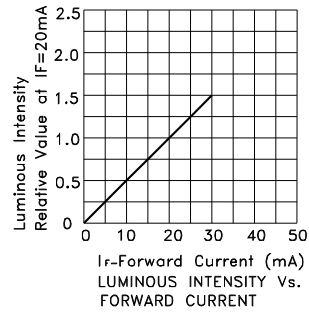
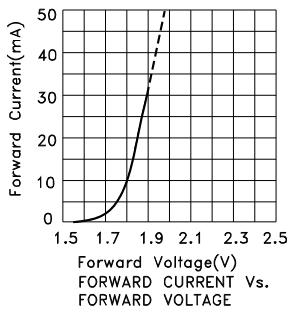
Parameter	Super Bright Red	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

Note:

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

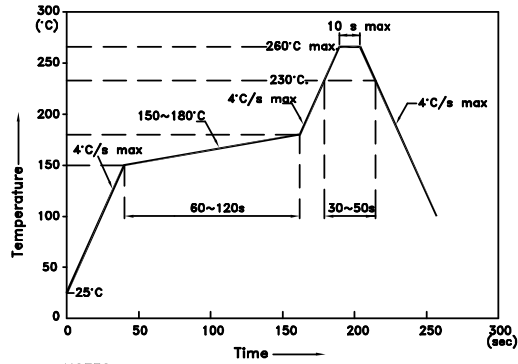


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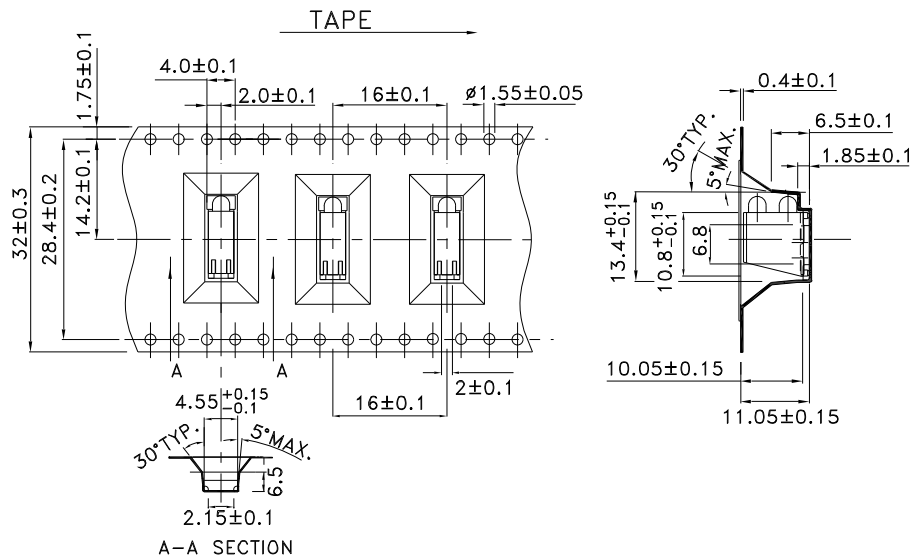
Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. No more than once.

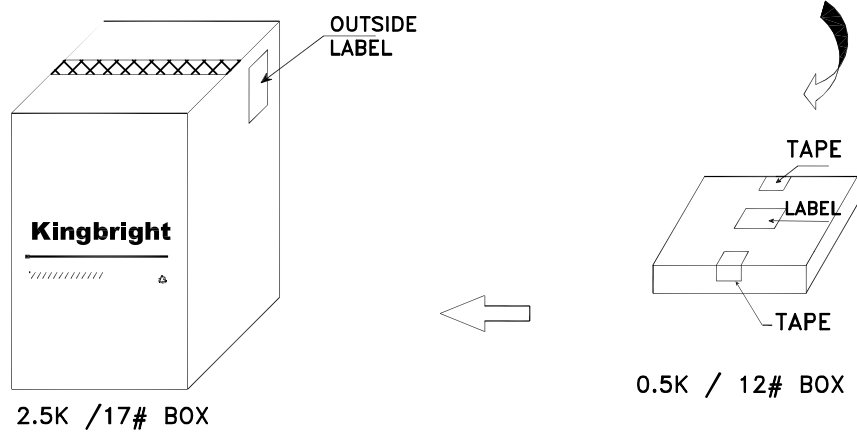
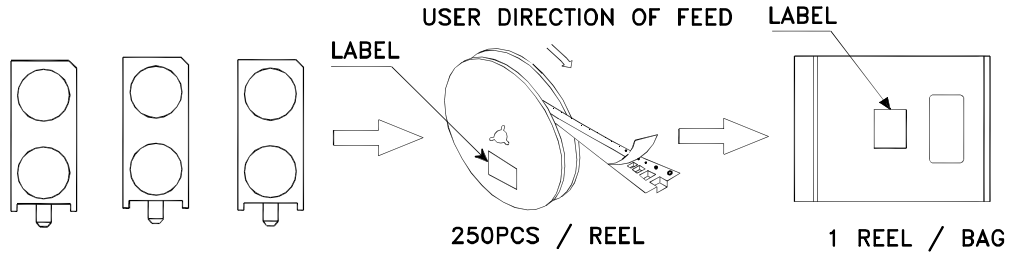
Tape Dimensions
(Units : mm)




Kingbright

PACKING & LABEL SPECIFICATIONS

WP7104ALUP/2SRD-0L



<h1>Kingbright</h1>	
P/NO: WP7104ALUPxxx	
QTY: 250 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:  XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	

No stress shall be applied on the LED during soldering to prevent damage.

