

2.1x0.7mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: APJA2107SURCK Hyper Red

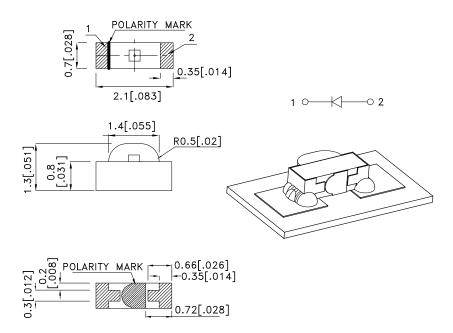
Features

- 2.1x0.7mm right angle SMT LED, 1.3mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAD1026 **REV NO: V.9 DATE: SEP/23/2009** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1203001552 DRAWN: Y.L.Zhong

Selection Guide

| Part No. | Dice | (- ', L - | Viewing Angle [1] | | |
|---------------|---------------------|-------------|----------------------|------|-------|
| | | | Min. | Тур. | 201/2 |
| APJA2107SURCK | Hyper Red (AlGaInP) | WATER CLEAR | 110 | 250 | 120° |

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|-----------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Hyper Red | 650 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Hyper Red | 630 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Hyper Red | 28 | | nm | IF=20mA |
| С | Capacitance | Hyper Red | 35 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Hyper Red | 1.95 | 2.5 | V | IF=20mA |
| lr | Reverse Current | Hyper Red | | 10 | uA | VR=5V |

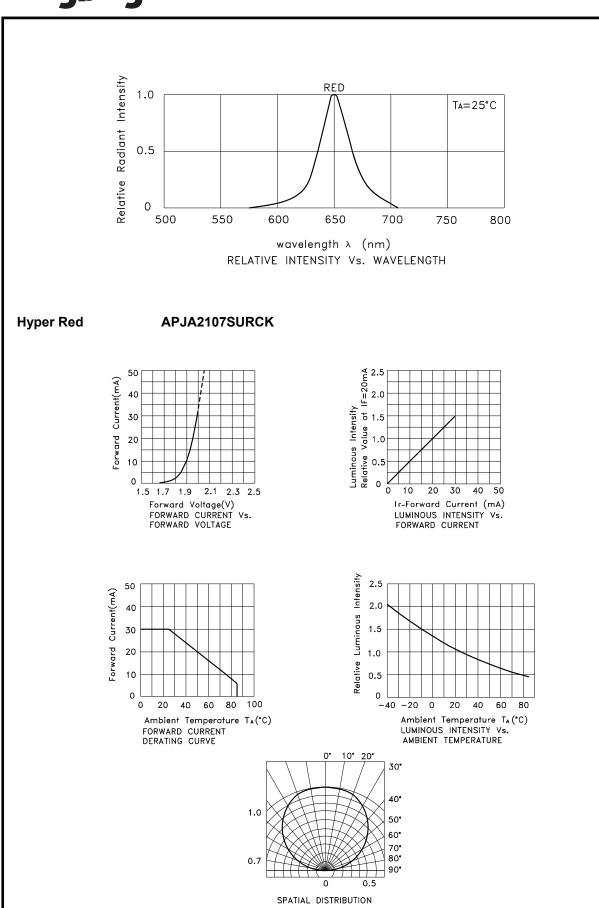
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Hyper Red | Units | |
|--------------------------|----------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 185 | 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.

SPEC NO: DSAD1026 **REV NO: V.9** DATE: SEP/23/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.L.Zhong ERP: 1203001552



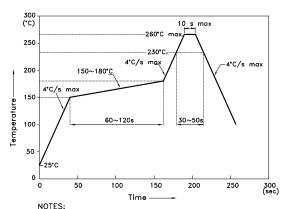
 SPEC NO: DSAD1026
 REV NO: V.9
 DATE: SEP/23/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

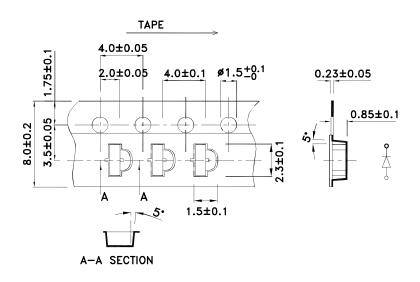
2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

3.Number of reflow process shall be 2 times or less.

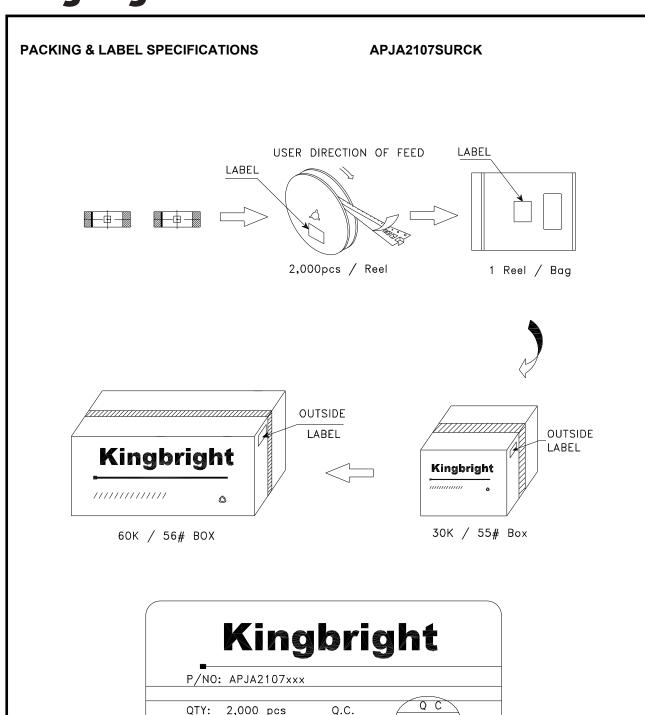
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

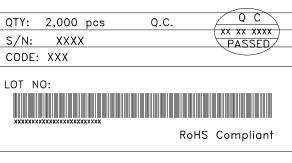


Tape Dimensions (Units : mm)



SPEC NO: DSAD1026 **REV NO: V.9** DATE: SEP/23/2009 PAGE: 4 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.L.Zhong ERP: 1203001552





SPEC NO: DSAD1026 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: SEP/23/2009 DRAWN: Y.L.Zhong PAGE: 5 OF 5 ERP: 1203001552

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