

2.1x0.6mm RIGHT ANGLE SURFACE LED **LAMP**

Part Number: APA2106SRCPRV

Super Bright Red

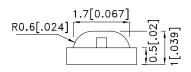
Features

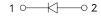
- 2.1mmX0.6mm right angle SMT LED, 1.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

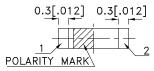
Description

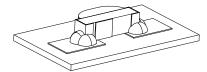
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2.Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 4. The device has a single mounting surface. The device must be mounted according to the specifications

SPEC NO: DSAD1015 APPROVED: WYNEC

REV NO: V.10A CHECKED: Allen Liu DATE: DEC/04/2011 DRAWN: Y.H.Wu

PAGE: 1 OF 5

ERP: 1203000528

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
APA2106SRCPRV	Super Pright Red (CoAlAs)	Water Clear	55	100	120°
	Super Bright Red (GaAlAs)	vvaler Clear	*12	*30	

- 1. 91/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Luminous intensity/ luminous Flux: +/-15%.

 * Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm IF=20r			
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	I=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	I=20mA		
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Super Bright Red	1.85		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.

 * Wavelength value is traceable to the CIE127-2007 compliant national standards.

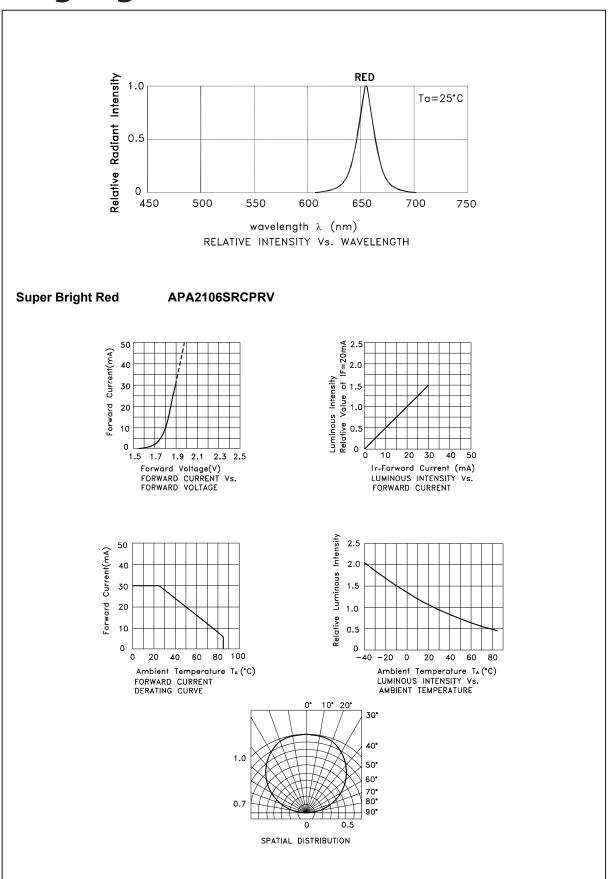
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units		
Power dissipation	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.

SPEC NO: DSAD1015 **REV NO: V.10A** DATE: DEC/04/2011 PAGE: 2 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.H.Wu ERP: 1203000528



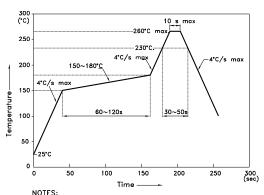
 SPEC NO: DSAD1015
 REV NO: V.10A
 DATE: DEC/04/2011
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.H.Wu
 ERP: 1203000528

APA2106SRCPRV

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:

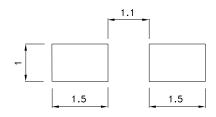
1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

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

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

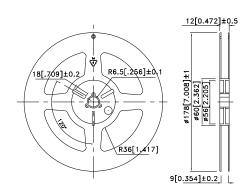
Recommended Soldering Pattern

(Units : mm; Tolerance: ± 0.1)



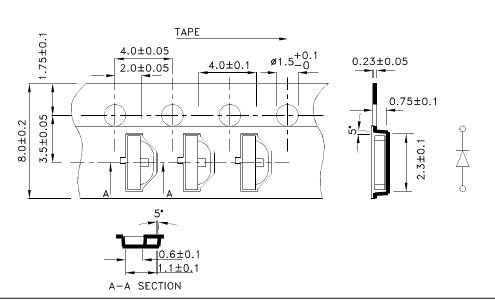
Tape Dimensions (Units : mm)

Reel Dimension



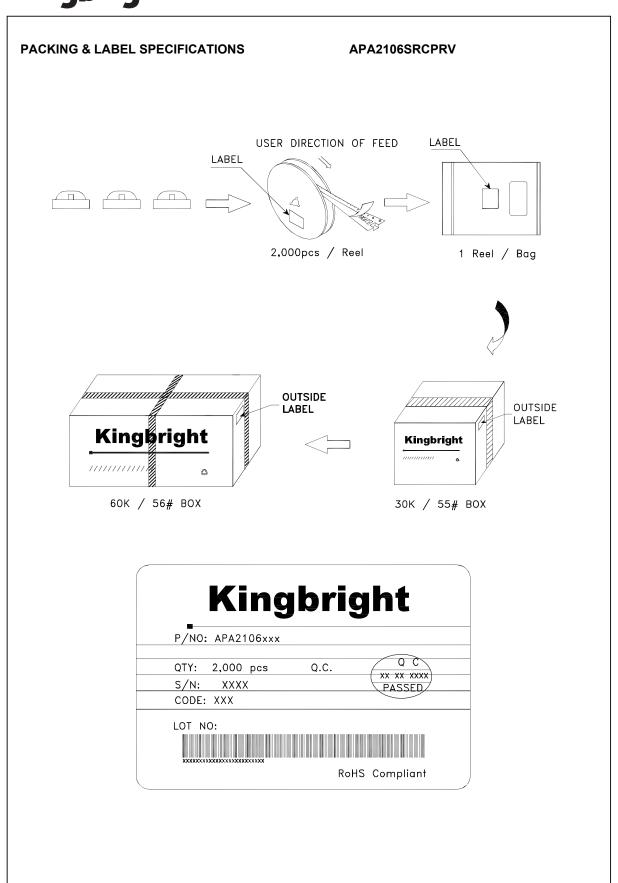
PAGE: 4 OF 5

ERP: 1203000528



SPEC NO: DSAD1015 REV NO: V.10A DATE: DEC/04/2011

APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.H.Wu



SPEC NO: DSAD1015 APPROVED: WYNEC REV NO: V.10A CHECKED: Allen Liu DATE: DEC/04/2011 DRAWN: Y.H.Wu PAGE: 5 OF 5 ERP: 1203000528