3.0mmx1.5mm SMD CHIP LED LAMP

Part Number: APL3015SRCPRV-F01

Super Bright Red

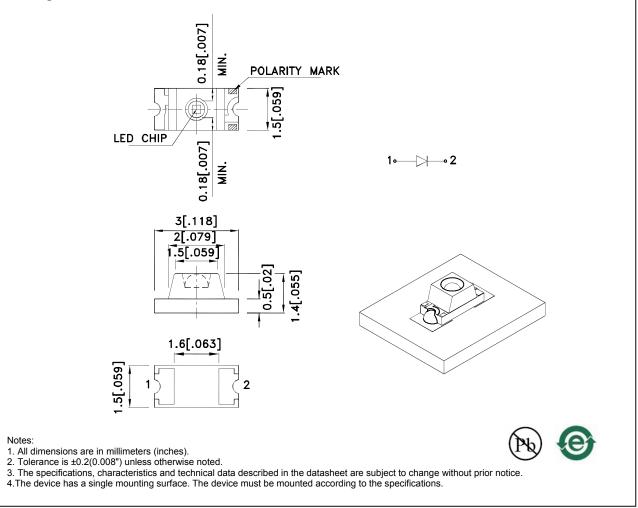
Features

- 3.0mmx1.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- 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.





SPEC NO: DSAE3896 APPROVED: WYNEC REV NO: V.10A CHECKED: Allen Liu DATE: MAR/24/2015 DRAWN: L.Q.Xie PAGE: 1 OF 5 ERP: 1203001621

Selection Guide

Selection Guide					
Part No.	. Dice Lens Ty		lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APL3015SRCPRV-F01	Super Pright Red (CoAlAs)	Water Clear	120	150	- 70°
	Super Bright Red (GaAlAs)	Waler Cied	*20 *	*50	

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	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red	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	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.

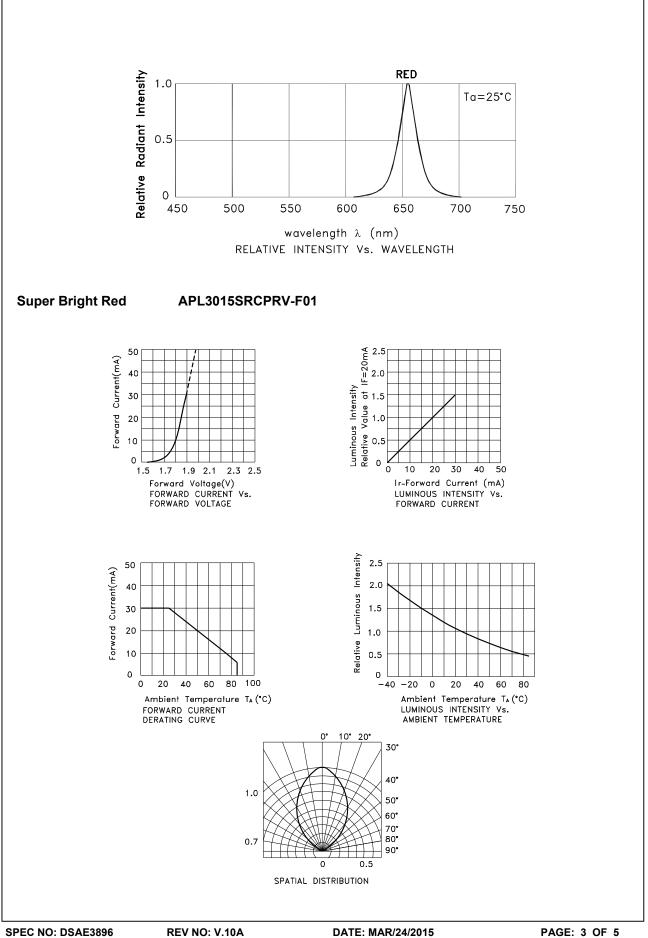
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

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:

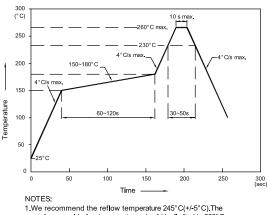
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APL3015SRCPRV-F01

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.

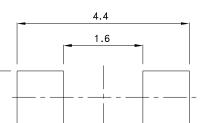




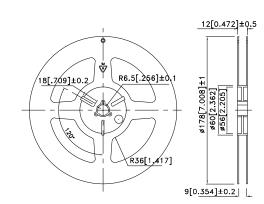
1.We recommend the reflow temperature 245° C(+/-5° C). The maximum soldering temperature should be limited to 260° C. 2 Don't cause stress to the epoxy resin while it is exposed

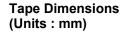
to high temperature. 3.Number of reflow process shall be 2 times or less.



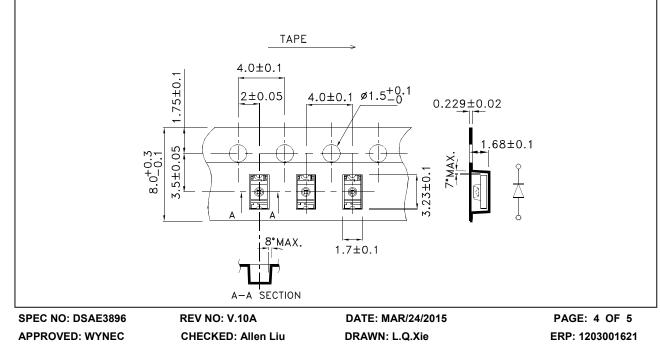


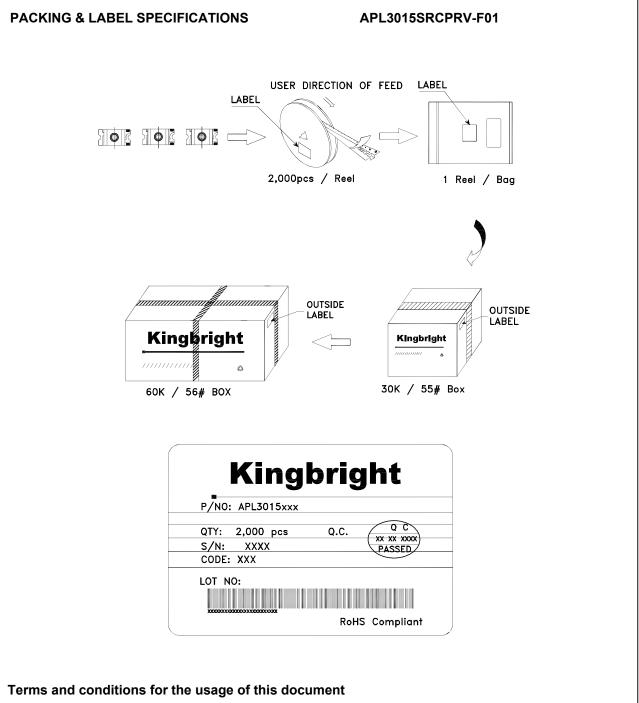






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DATE: MAR/24/2015 DRAWN: L.Q.Xie