3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216SRCPRV Super Bright Red

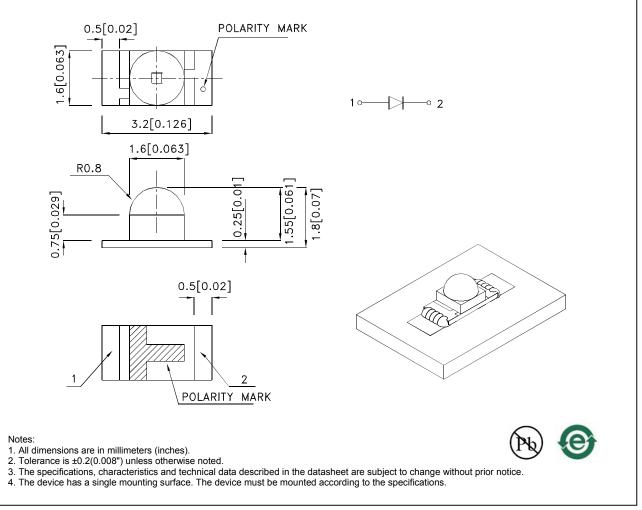
Features

- 3.2mmX1.6mm SMT LED, 1.8mm 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.

Package Dimensions



SPEC NO: DSAB6348 APPROVED: WYNEC REV NO: V.15A CHECKED: Allen Liu DATE: APR/07/2015 DRAWN: L.Q.Xie PAGE: 1 OF 5 ERP: 1203002294

Selection Guide

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Part No.	Dice	Iv (mcd) [2] Dice Lens Type @ 20mA			Viewing Angle [1]
			Min.	Тур.	201/2
APTD3216SRCPRV	Super Pright Red (CoAlAs)	Water Clear	200	400	- 35°
	Super Bright Red (GaAlAs)	Water Cied	*80	*150	

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.

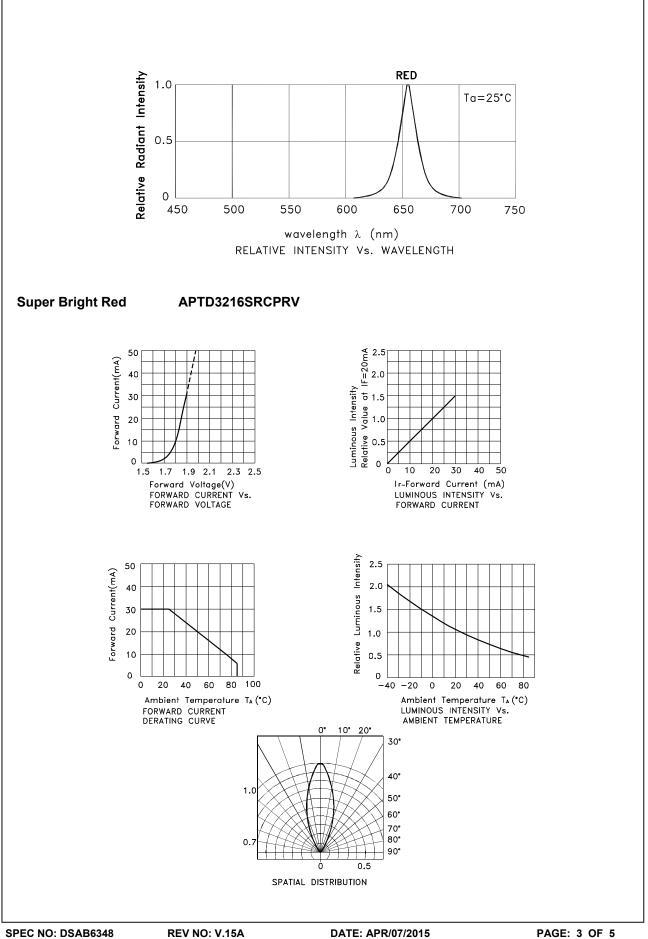
Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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:

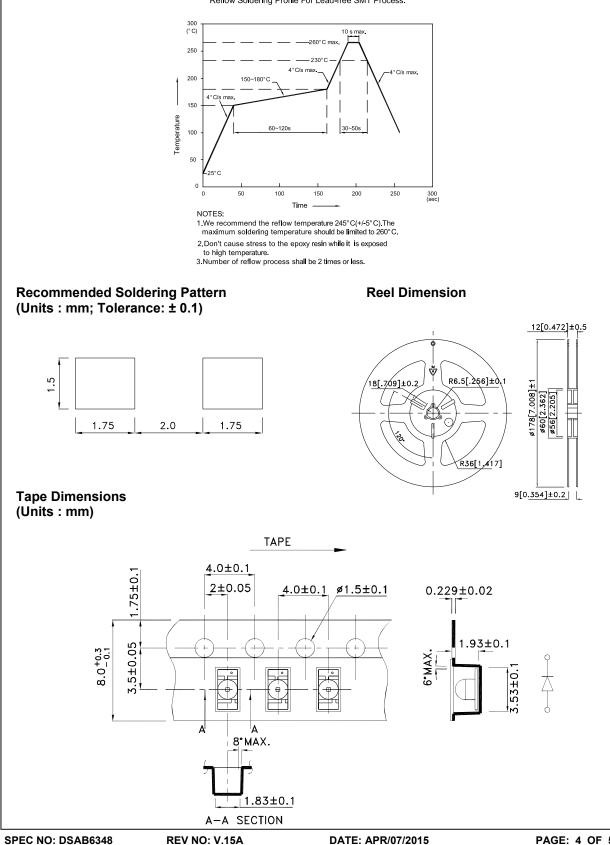
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APTD3216SRCPRV

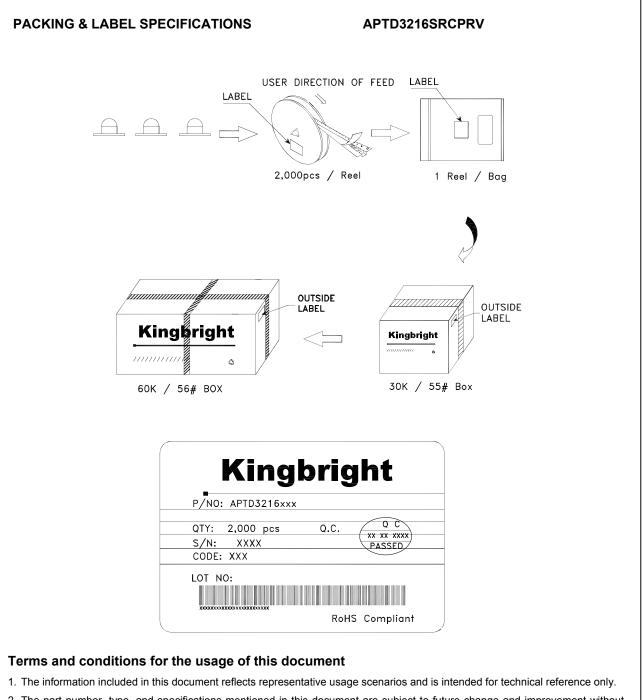
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.





CHECKED: Allen Liu

DRAWN: L.Q.Xie



- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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DATE: APR/07/2015 DRAWN: L.Q.Xie

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