

2.0x1.25mm SMD CHIP LED LAMP

Part Number: KPT-2012SRC-PRV

Super Bright Red

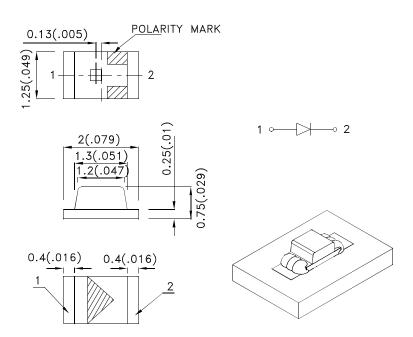
Features

- 2.0mm x1.25mm SMT LED,0.75mm 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



SPEC NO: DSAB3352

APPROVED: WYNEC

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.17A

CHECKED: Allen Liu

DATE: DEC/18/2011 PAGE: 1 OF 5 DRAWN: C.H.Han ERP: 1203001873

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPT-2012SRC-PRV	Super Bright Red (GaAlAs)	Matan Class	55	100	- 120°
		Water Clear	*12	*30	

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.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm	IF=20mA		
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Red	2	0		nm	IF=20mA		
С	Capacitance	Super Bright Red	4	5		pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Super Bright Red	1.	85	2.5	V	IF=20mA		
lr	Reverse Current	Super Bright Red			10	uA	V _R =5V		

Notes:

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

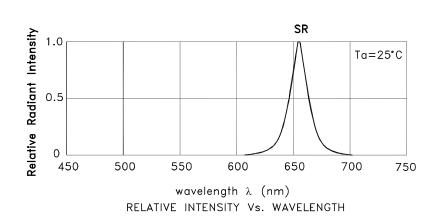
 * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

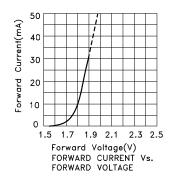
Parameter	r Super Bright Red		
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

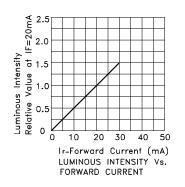
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

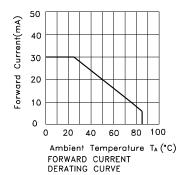
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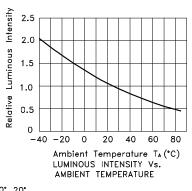


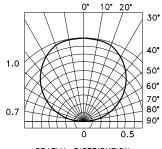
Super Bright Red KPT-2012SRC-PRV











SPATIAL DISTRIBUTION

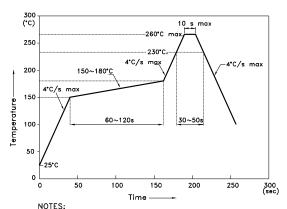
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

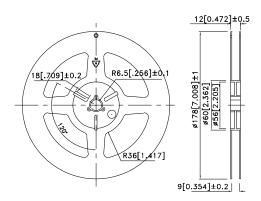
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

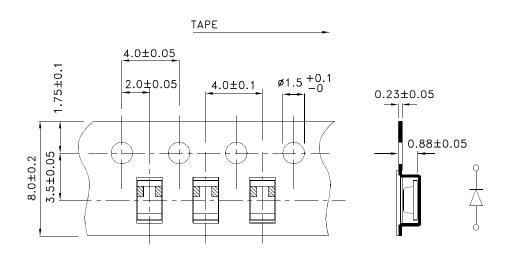
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.25 1.25 1.1

Reel Dimension

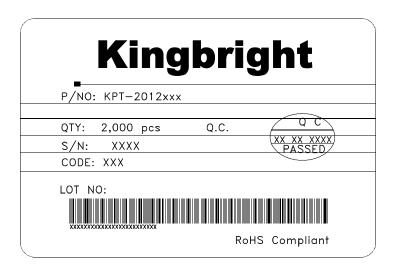


Tape Dimensions (Units: mm)



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PACKING & LABEL SPECIFICATIONS KPT-2012SRC-PRV USER DIRECTION OF FEED LABEL LABEL 2,000PCS / REEL 1 REEL / BAG OUTSIDE OUTSIDE LABEL LABEL **Kingbright Kingbright** 30K / 55# BOX



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60K / 56# BOX

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