

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPT-1608SRC-PRV

Super Bright Red

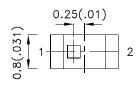
Features

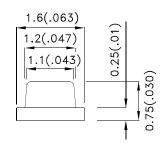
- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

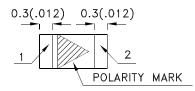
Description

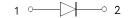
The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

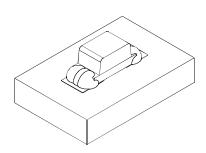
Package Dimensions











- 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.

SPEC NO: DSAF9380 **REV NO: V.19A DATE: DEC/28/2011** PAGE: 1 OF 5 ERP: 1203001749 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPT-1608SRC-PRV	Super Bright Red (GaAlAs)	Water Clear	55	100	- 120°
			*12	*30	

Notes:

- 1. 01/2 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.		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	20			nm	IF=20mA
С	Capacitance	Super Bright Red	45			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

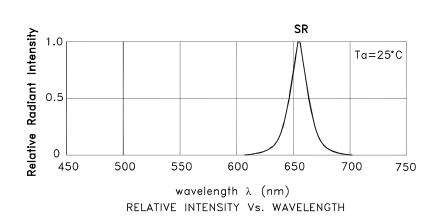
- Notes:
 1.Wavelength: +/-1nm.
 2. Forward Voltage: +/-0.1V.
 * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red			
Power dissipation	75			
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			

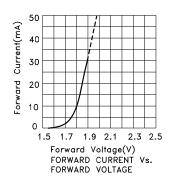
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

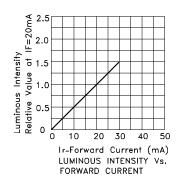
SPEC NO: DSAF9380 **REV NO: V.19A DATE: DEC/28/2011** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su ERP: 1203001749

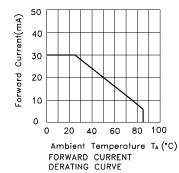


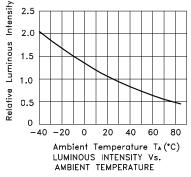
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KPT-1608SRC-PRV



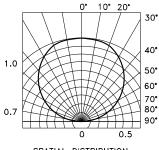






PAGE: 3 OF 5

ERP: 1203001749



SPATIAL DISTRIBUTION

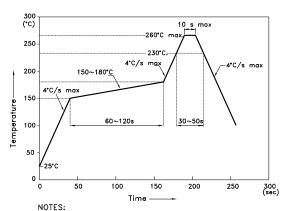
SPEC NO: DSAF9380 REV NO: V.19A DATE: DEC/28/2011

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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.



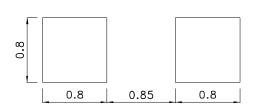
- NOTES:

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

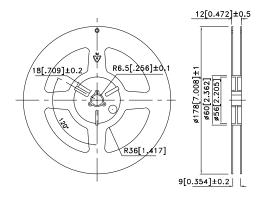
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

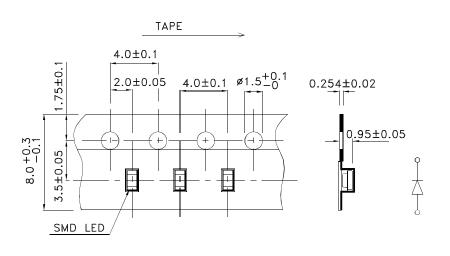
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



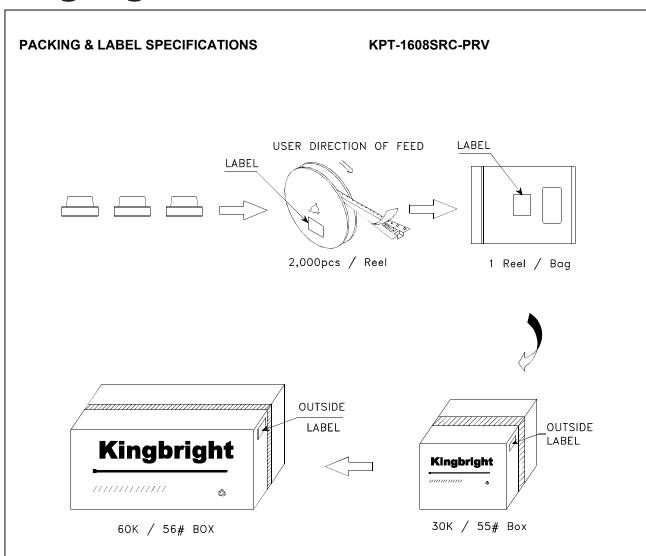
Reel Dimension

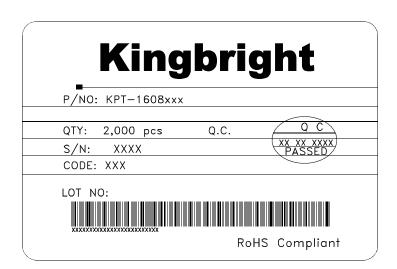


Tape Dimensions (Units: mm)



SPEC NO: DSAF9380 **REV NO: V.19A DATE: DEC/28/2011** PAGE: 4 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su ERP: 1203001749





SPEC NO: DSAF9380 APPROVED: WYNEC REV NO: V.19A CHECKED: Allen Liu DATE: DEC/28/2011 DRAWN: D.M.Su PAGE: 5 OF 5 ERP: 1203001749