

3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTR-3216SURC Hyper Red

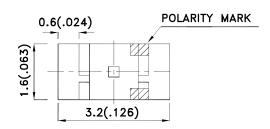
Features

- 3.2mmx1.6mm SMT LED,1.05mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Vavrious colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

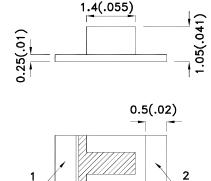
Description

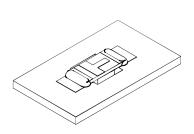
The Hyper Red source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ 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: DSAA9355 **REV NO: V.11A** DATE: JUL/24/2012 PAGE: 1 OF 5 APPROVED: WYNEC CHECKED: Allen Liu ERP: 1203002423 DRAWN: C.H.Han

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPTR-3216SURC	Hyper Red (AlGaInP)	Matau Class	150	250	- 120°
		Water Clear	*40	*90	

Notes:

- 1. θ 1/2 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	Typ		Max.	Units	Test Conditions	
Syllibol	rai ailletei	Device	Тур.		IVIAA.	Ullits	rest Conditions	
λpeak	Peak Wavelength	Hyper Red	650	*645		nm	IF=20mA	
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Hyper Red	27			nm	IF=20mA	
С	Capacitance	Hyper Red	45			pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Hyper Red	1.9		2.5	V	IF=20mA	
lr	Reverse Current	Hyper Red			10	uA	VR=5V	

Notes:

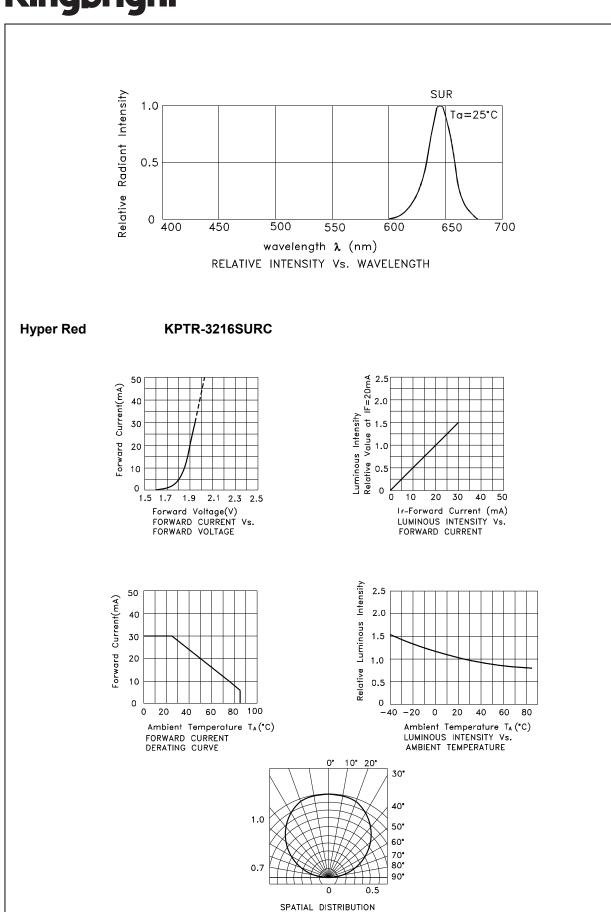
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	185	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: DSAA9355 **REV NO: V.11A** DATE: JUL/24/2012 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: C.H.Han ERP: 1203002423



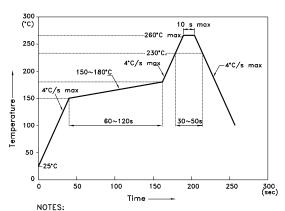
 SPEC NO: DSAA9355
 REV NO: V.11A
 DATE: JUL/24/2012
 PAGE: 3 OF 5

 APPROVED: WYNEC
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KPTR-3216SURC

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.

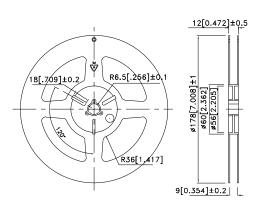
 3.Number of reflow process shall be 2 times or less.

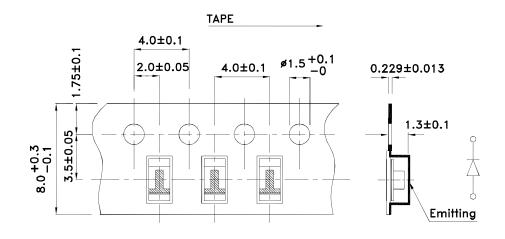
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

HOLE 2.1 ± 0.05 1.5 1.5

Tape Dimensions (Units: mm)

Reel Dimension

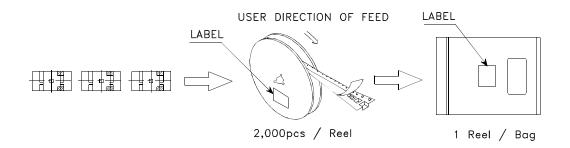


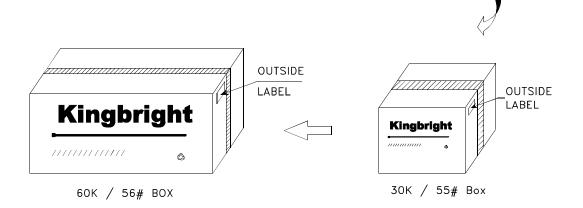


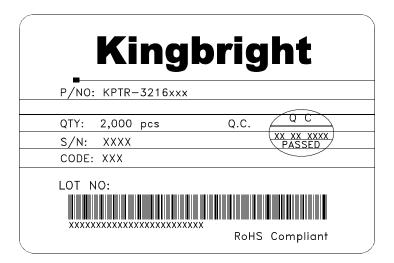
SPEC NO: DSAA9355 **REV NO: V.11A** DATE: JUL/24/2012 PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: C.H.Han ERP: 1203002423

PACKING & LABEL SPECIFICATIONS

KPTR-3216SURC







Detailed application notes are listed on our website. http://www.kingbright.com/application notes

SPEC NO: DSAA9355 APPROVED: WYNEC REV NO: V.11A CHECKED: Allen Liu DATE: JUL/24/2012 DRAWN: C.H.Han PAGE: 5 OF 5 ERP: 1203002423

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