3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTL-3216SURCK Hyper Red

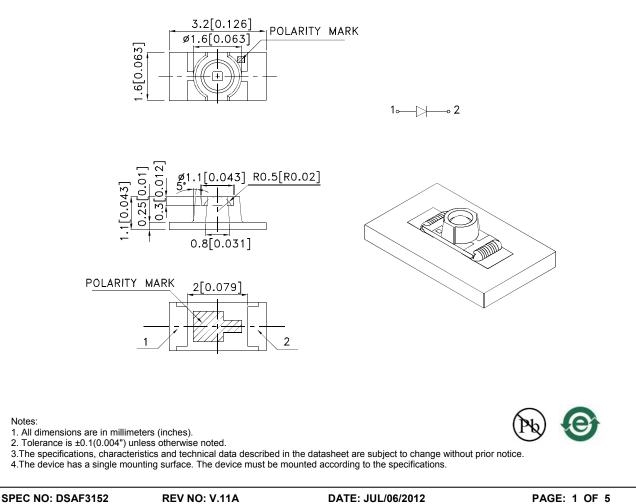
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various 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-GalnP on GaAs substrate Light Emitting Diode.

Package Dimensions



CHECKED: Allen Liu

DATE: JUL/06/2012 DRAWN: D.M.Su PAGE: 1 OF 5 ERP: 1203004401

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
KPTL-3216SURCK	Hyper Red (AlGaInP)	Water Clear	400	550	70°			
		Water Clear	*120	*230				

Notes: 1. θ1/2 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 Condition		
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	28			nm	IF=20mA	
С	Capacitance	Hyper Red 35			pF	VF=0V;f=1MHz		
Vf [2]	Forward Voltage	Hyper Red	1.95		2.5	V	IF=20mA	
IR	Reverse Current	Hyper Red			10	uA	VR=5V	

Notes:

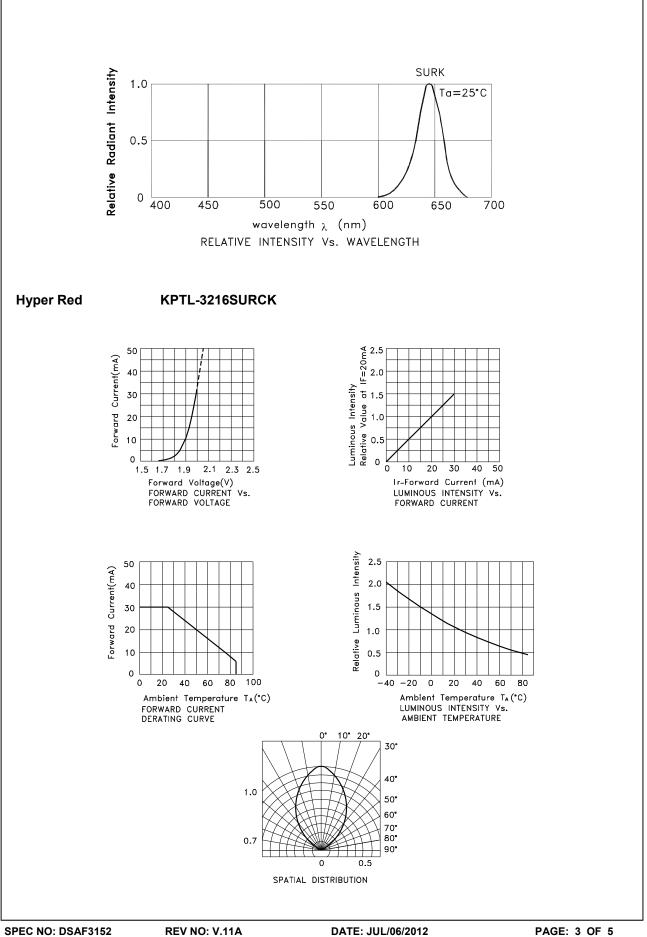
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

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:

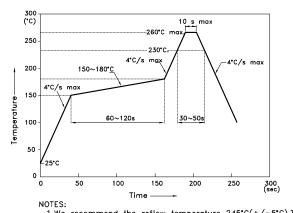
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPTL-3216SURCK

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.



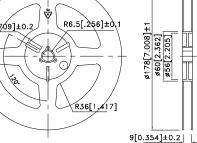
NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.

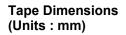


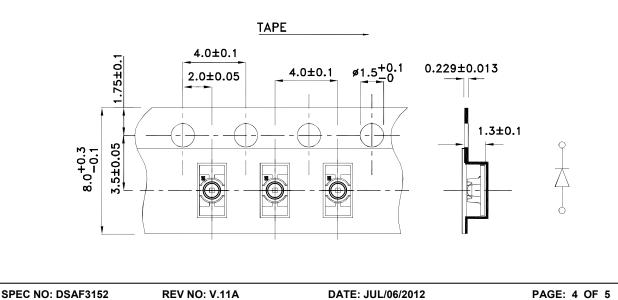
1.6 1.8 1.6 ဖ 3.4



Reel Dimension





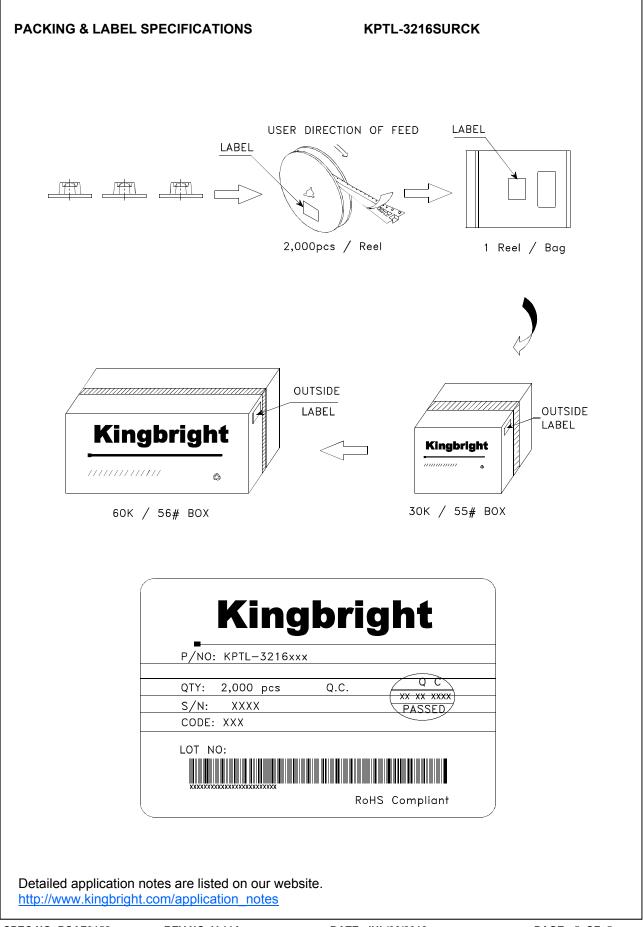


APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: D.M.Su

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