3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTL-3216SURCK-01 Hyper Red

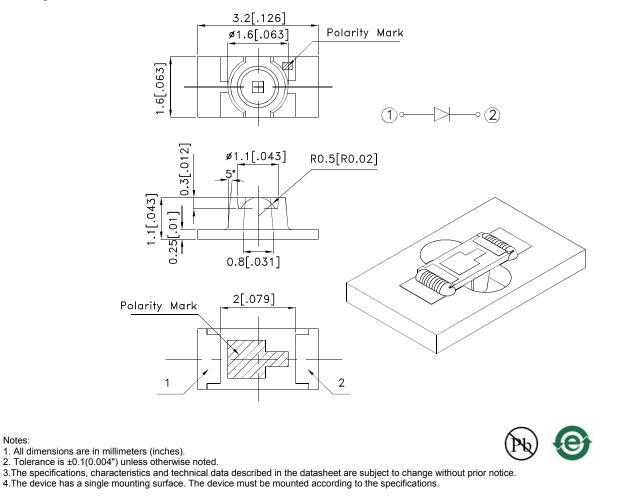
Features

- 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.
- Reverse mount.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAF3154 **APPROVED: WYNEC**

Notes:

REV NO: V.7A CHECKED: Allen Liu DATE: JUL/05/2012 **DRAWN: C.H.Han**

PAGE: 1 OF 5 ERP: 1203004417

Selection Guide

Part No.	Dice Lens Type		lv (mcd) [2] @ 20mA		Viewing Angle [1]
Fait NO.	Dice	Lens Type	Min.	Тур.	201/2
KPTL-3216SURCK-01	Hyper Red (AlGaInP)	Water Clear	400	550	70°
			*120	*230	

Notes:

θ1/2 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	Ту	/p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650	*645		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	I⊧=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

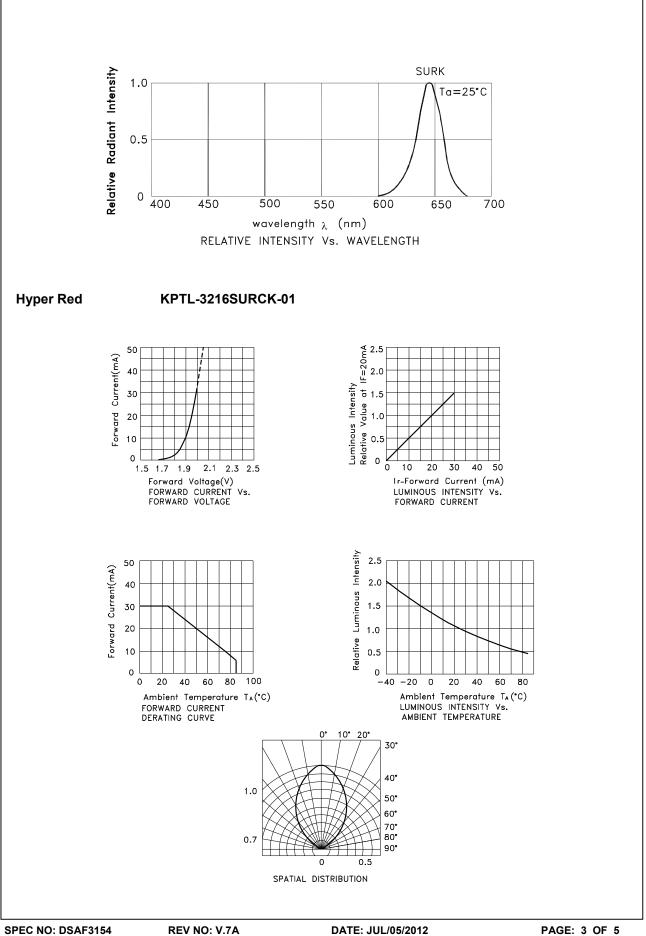
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

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:

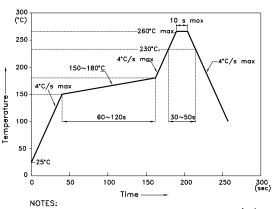
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



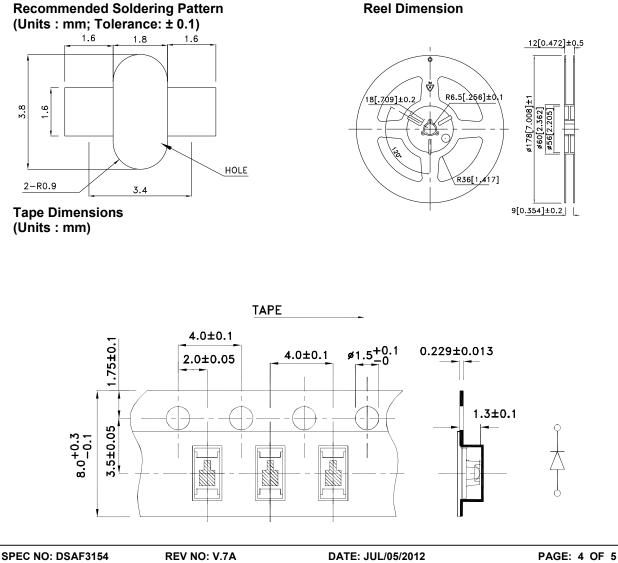
KPTL-3216SURCK-01

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.



CHECKED: Allen Liu

DRAWN: C.H.Han

ERP: 1203004417

