3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTR-3216SURCK Hyper Red

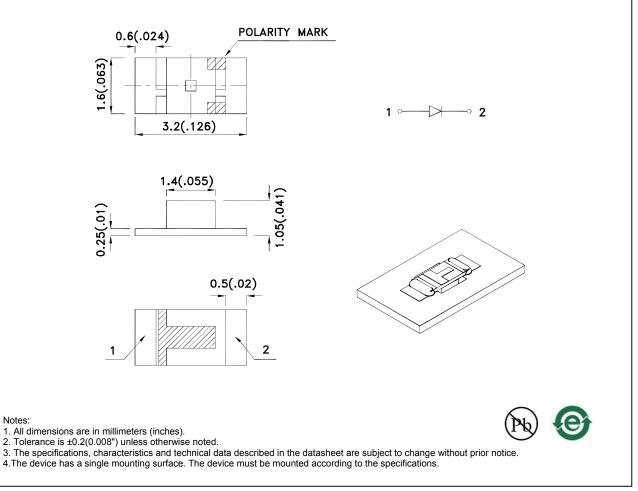
Features

- 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-GalnP on GaAs substrate Light Emitting Diode.

Package Dimensions



SPEC NO: DSAA9356 APPROVED: WYNEC REV NO: V.11A CHECKED: Allen Liu DATE: DEC/22/2011 DRAWN: H.L.Ding PAGE: 1 OF 5 ERP: 1203002425

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 120 230 KPTR-3216SURCK Hyper Red (AlGaInP) Water Clear 120° *20 *80

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	ту	/p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650	*645		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	630	*630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	2	8		nm	I⊧=20mA
С	Capacitance	Hyper Red	3	5		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.	95	2.5	V	I⊧=20mA
IR	Reverse Current	Hyper Red			10	uA	Vr=5V

Notes:

1.Wavelength: +/-1nm.

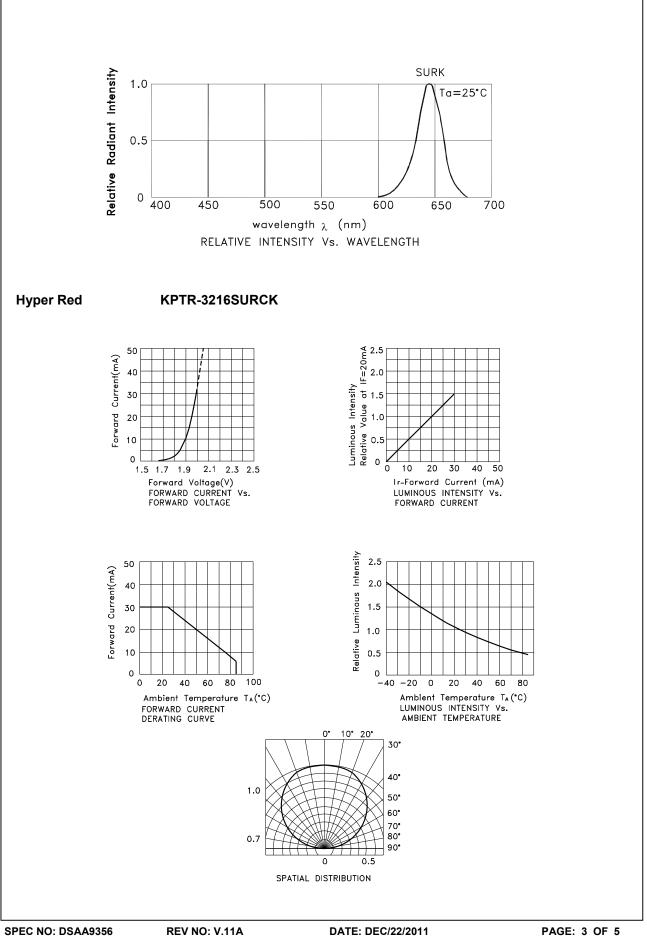
2. Forward Voltage: +/-0.1V.
* Wavelength value is traceable to the CIE127-2007 compliant national standards.

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:

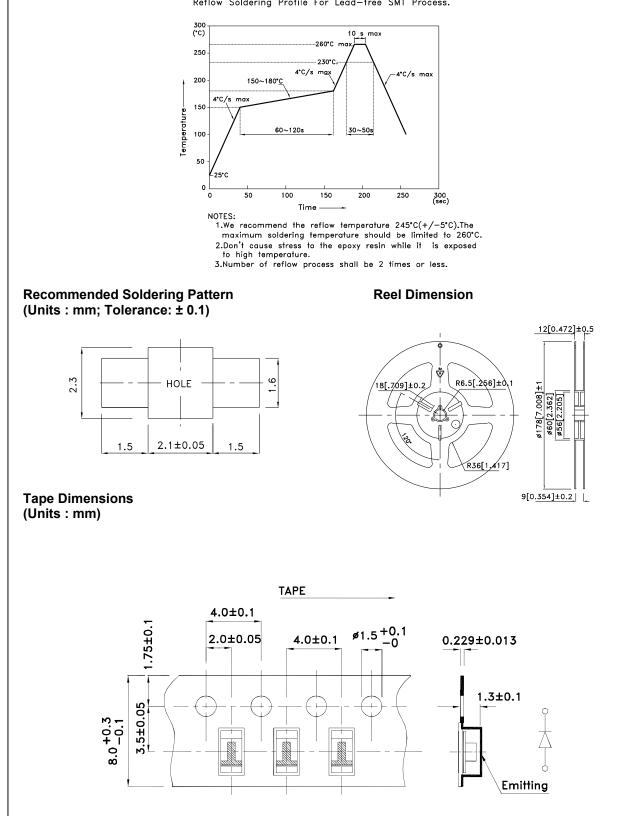
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPTR-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.



REV NO: V.11A CHECKED: Allen Liu DATE: DEC/22/2011 DRAWN: H.L.Ding

PAGE: 4 OF 5 ERP: 1203002425

