### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: KPT-2012LSURCK Hyper Red

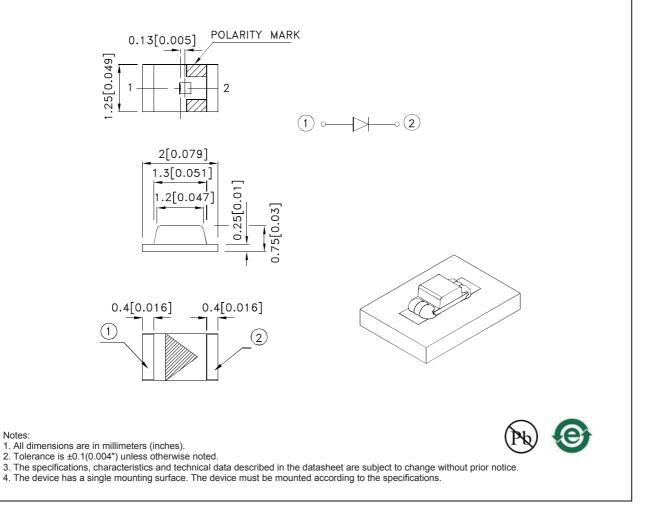
#### **Features**

- 2.0mm x1.25mm 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.
- Low current IF=2mA operating.
- RoHS compliant.

#### Description

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

#### **Package Dimensions**



SPEC NO: DSAC5488 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: JUL/26/2013 DRAWN: D.N.Huang PAGE: 1 OF 5 ERP: 1203003522

### Selection Guide

Selection Guide									
Part No.	Dice	Lens Type	Iv (mcd) [2] @ 2mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
KPT-2012LSURCK	Hyper Red (AlGaInP)	Water Clear	10	22	120°				
		water Clear	*3	*6					

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 Conditions
λpeak	Peak Wavelength	Hyper Red	645		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	I⊧=2mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red	1.75	2.5	V	I⊧=2mA
IR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

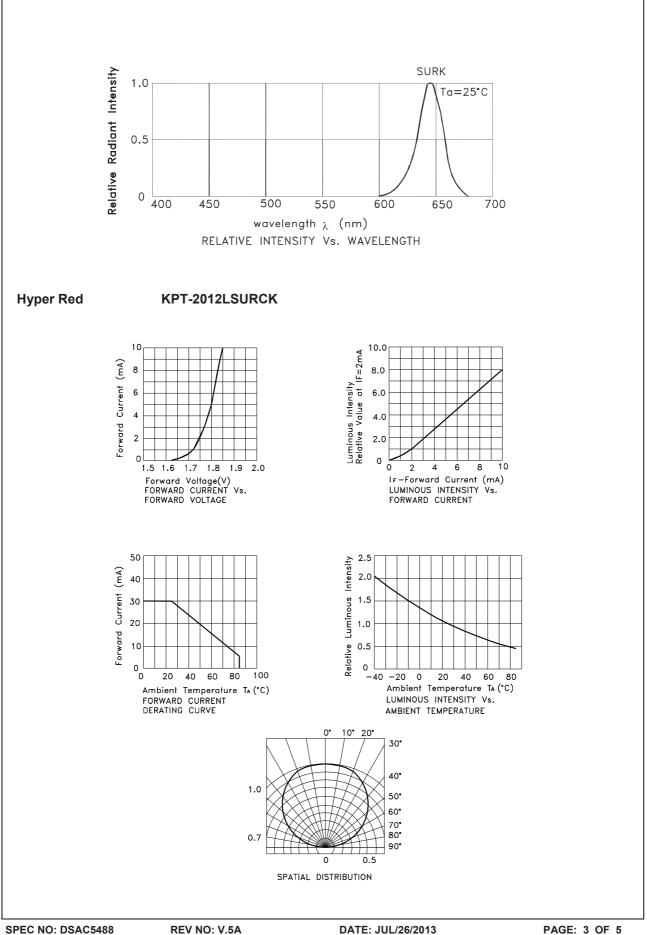
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

### 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			

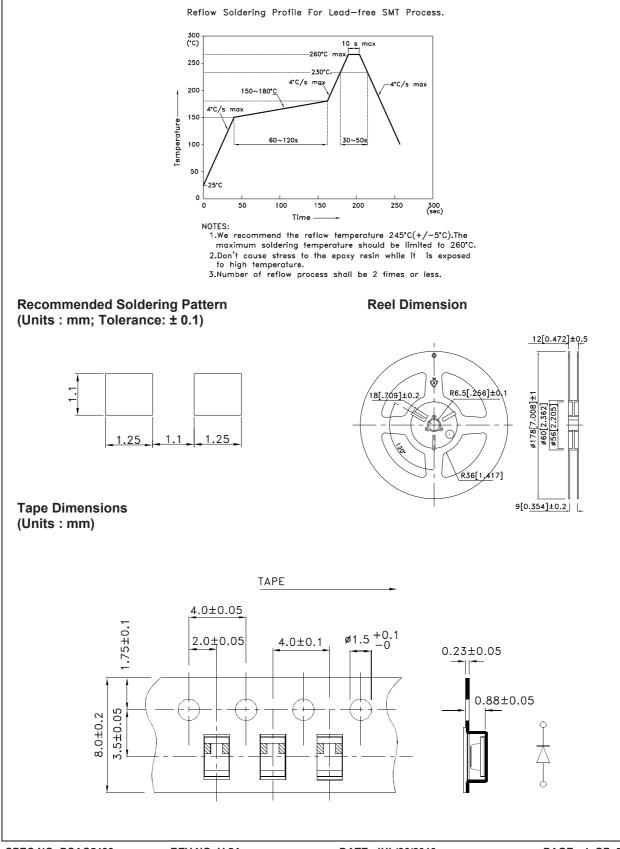
Note:

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



### **KPT-2012LSURCK**

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.



SPEC NO: DSAC5488 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: JUL/26/2013 DRAWN: D.N.Huang PAGE: 4 OF 5 ERP: 1203003522

