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

Part Number: APTK2012SURCK-F01 Hyper Red

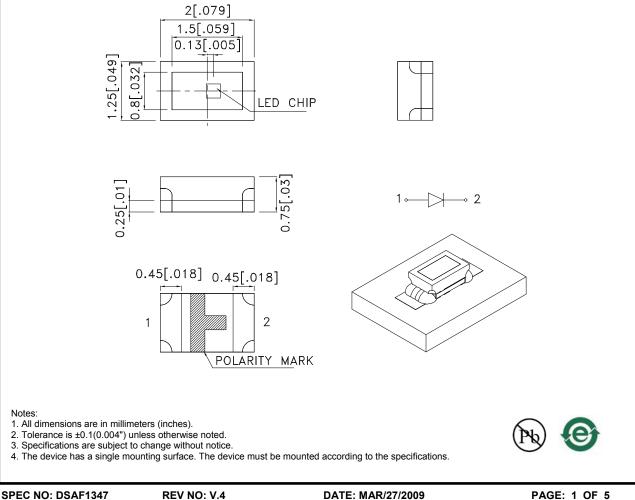
#### **Features**

- 2.0mmx1.25mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

#### Description

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

#### **Package Dimensions**



APPROVED: WYNEC

Notes:

**CHECKED:** Allen Liu

DRAWN: X.M.He

ERP: 1204000331

### alaction Guida

Part No.	Dice	Lens Type	•	cd) [2] Viewing 0mA Angle [1	
			Min.	Тур.	201/2
APTK2012SURCK-F01	Hyper Red (AlGaInP)	WATER CLEAR	70	200	100°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous intensity/ luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	I⊧=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95	2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red		10	uA	Vr=5V

Notes:

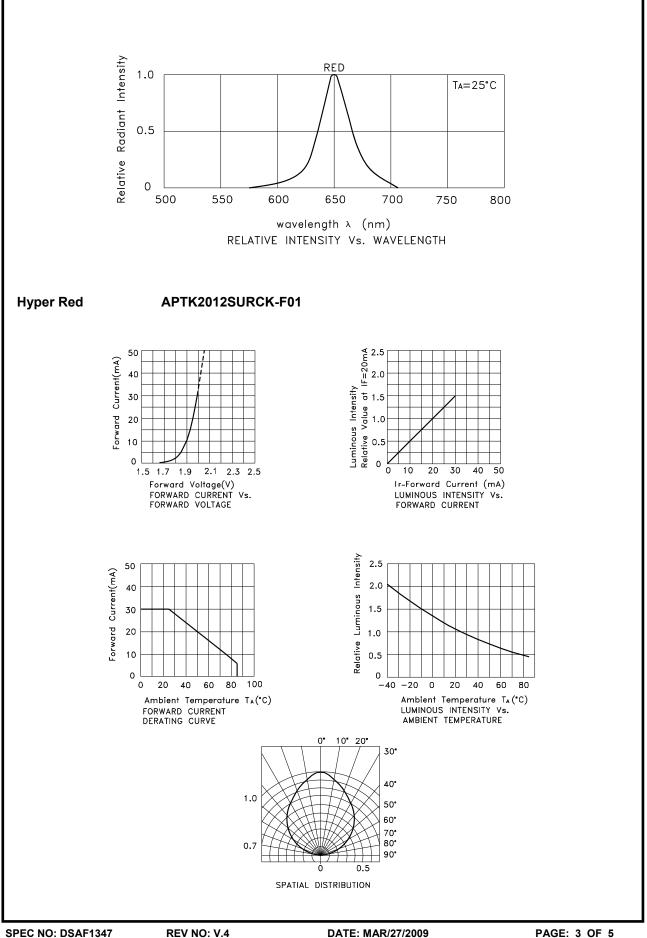
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

### 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:

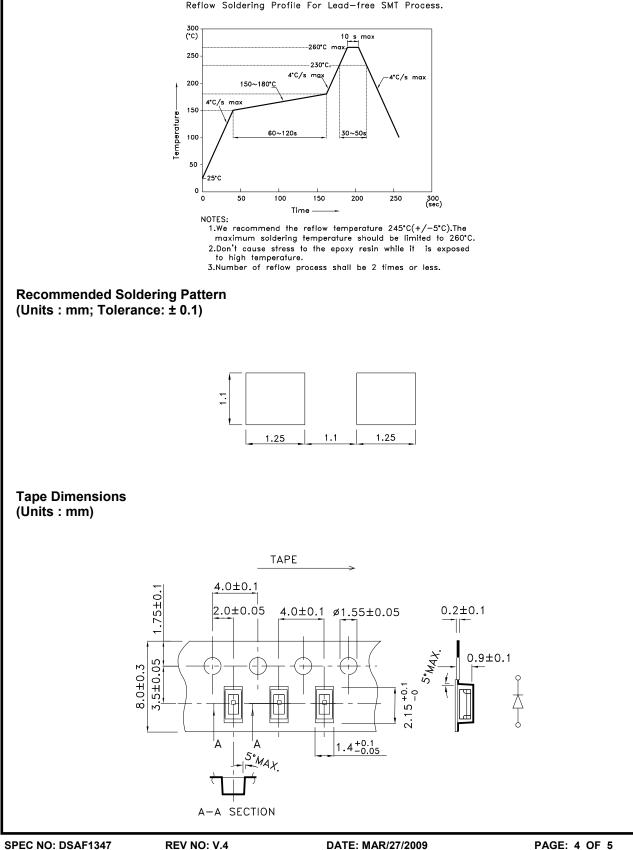
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### APTK2012SURCK-F01

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.



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