

2.0x1.25mm SMD CHIP LED LAMP

Part Number: APT2012SECK/J3-PRV Hyper Red

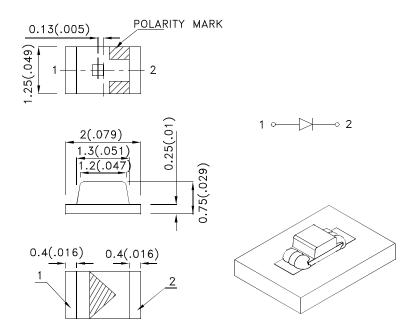
Features

- 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.
- RoHS compliant.

Description

The Hyper Red device is based on light emitting diode chip made from AlGaInP.

Package Dimensions



SPEC NO: DSAN0480

APPROVED: WYNEC

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.1A

CHECKED: Allen Liu

DATE: JUN/14/2013 PAGE: 1 OF 5 DRAWN: Y.Liu ERP: 1203013844

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] Dice			Viewing Angle [1]
		2.	Min.	Тур.	201/2	
ADTOMOCECIVIO DDV	Lhunan Dad (AlCalaD)	Matau Class	700	1100	120°	
APT2012SECK/J3-PRV	Hyper Red (AlGaInP)	Water Clear	*200 *350	*350		

Notes:

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	20		nm	I=20mA
С	Capacitance	Hyper Red	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	2.2	2.8	V	IF=20mA
lr	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.

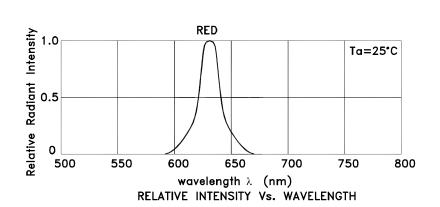
Absolute Maximum Ratings at TA=25°C

Abbolato maximum ratingo at 17. 20 0					
Parameter	Hyper Red	Units			
Power dissipation	84	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

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

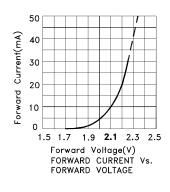
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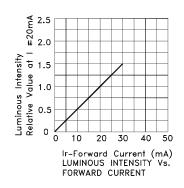
Luminous intensity/ luminous Flux: +/-15%.
 *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

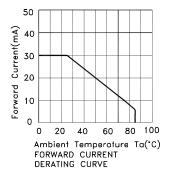


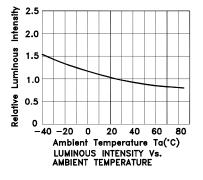
Hyper Red

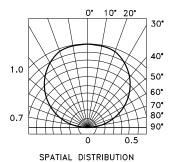
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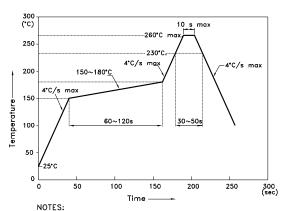
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

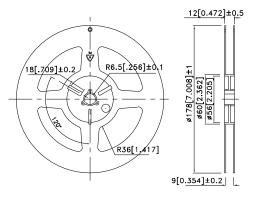
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.25 1.1 1.25

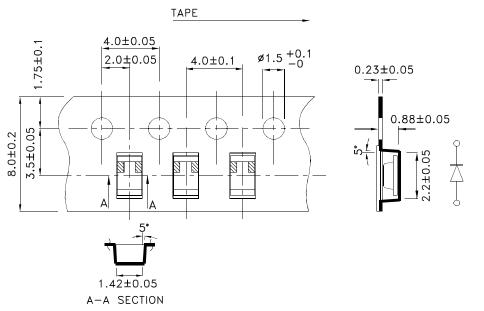
Reel Dimension



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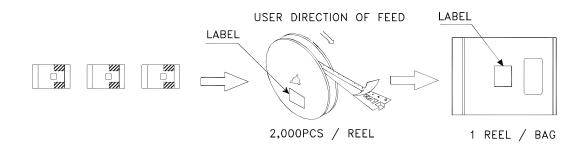
Tape Dimensions (Units: mm)

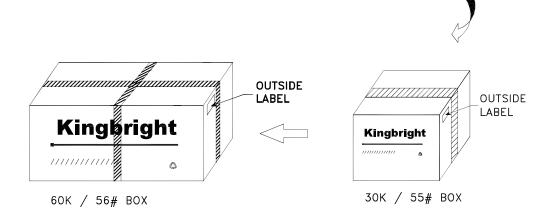


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PACKING & LABEL SPECIFICATIONS

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All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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