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Kingbright APT3216LSECK/J3-PRV

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Datasheet of APT3216LSECK/J3-PRV - LED RED CLEAR 1206 SMD

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3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: APT3216LSECK/J3-PRV Hyper Red

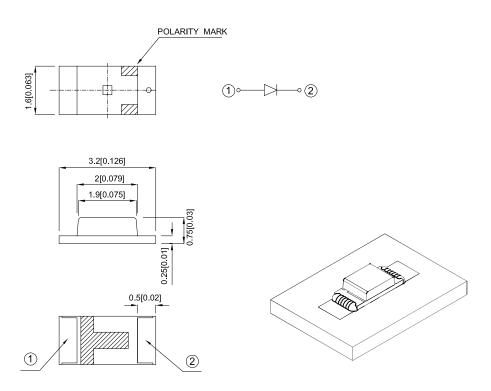
Features

- 3.2mmx1.6mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

Description

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

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 4. The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
APT3216LSECK/J3-PRV	Hyper Red (AlCalaD)	Water Clear	50	100	- 120°
APT32T0LSECN33-PRV	Hyper Red (AlGaInP)	water Clear	*20	*40	

Notes:

- 1. θ 1/2 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	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red		640		nm	IF=2mA
λD [1]	Dominant Wavelength	Hyper Red		625		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Hyper Red		20		nm	IF=2mA
С	Capacitance	Hyper Red		27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.5	1.8	2.1	V	IF=2mA
lr	Reverse Current	Hyper Red			10	uA	V _R =5V

Notes:

- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

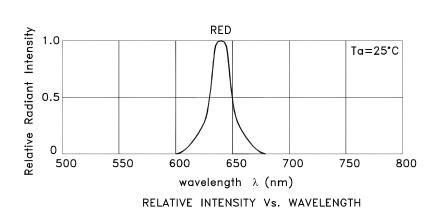
7.000.000 maximum 1.00m.go at 171 20 0					
Parameter	Hyper Red				
Power dissipation	63	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

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

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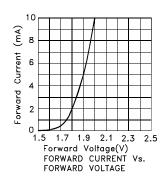


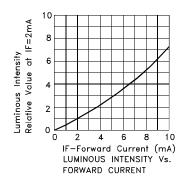
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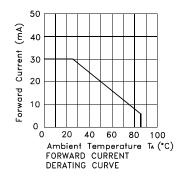


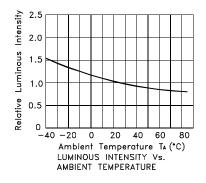
Hyper Red

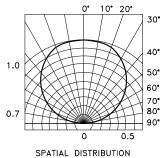
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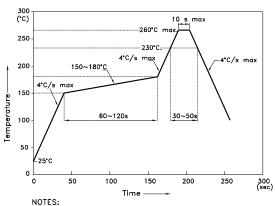
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



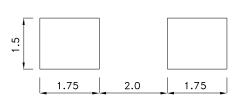
UIES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

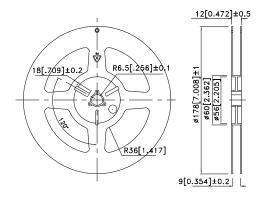
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

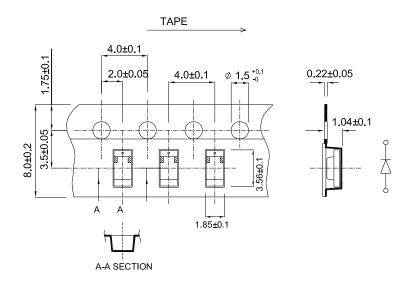
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



Tape Dimensions (Units : mm)



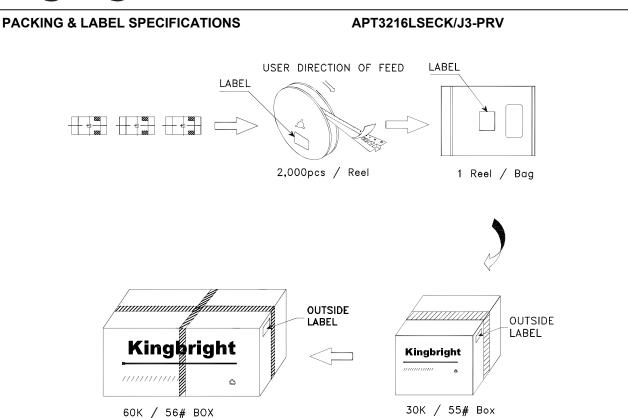
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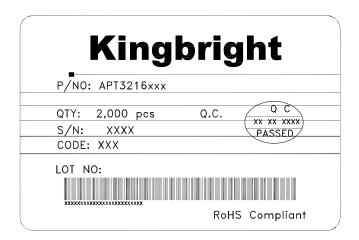
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