3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216SECK/J3-PF Hyper Red

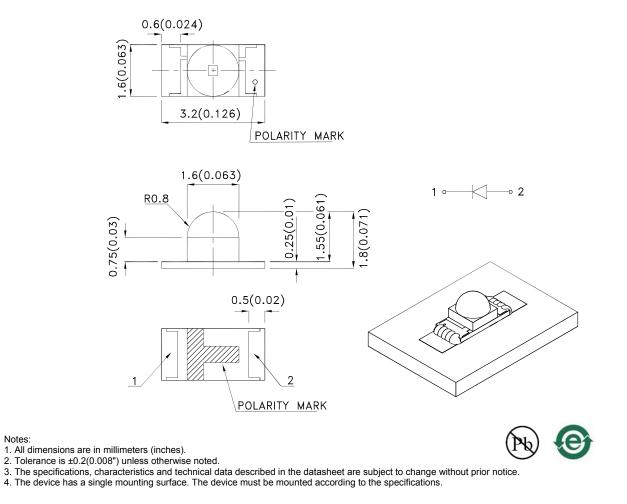
Features

- 3.2mmX1.6mm SMD LED, 1.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- 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: DSAO5931 APPROVED: Wynec REV NO: V.1A CHECKED: Allen Liu DATE: NOV/10/2015 DRAWN: M.Liu PAGE: 1 OF 5 ERP: 1203015274

Selection Guide

Selection Guide					
Part No.	Part No. Emitting Color (Material) Lens Type		lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD3216SECK/J3-PF	Hyper Red (AlColnD)	Water Clear	4200	7500	35°
	Hyper Red (AlGaInP)	Water Clear	*1600 *250	*2500	

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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	625		nm	I⊧=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	I⊧=20mA
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.

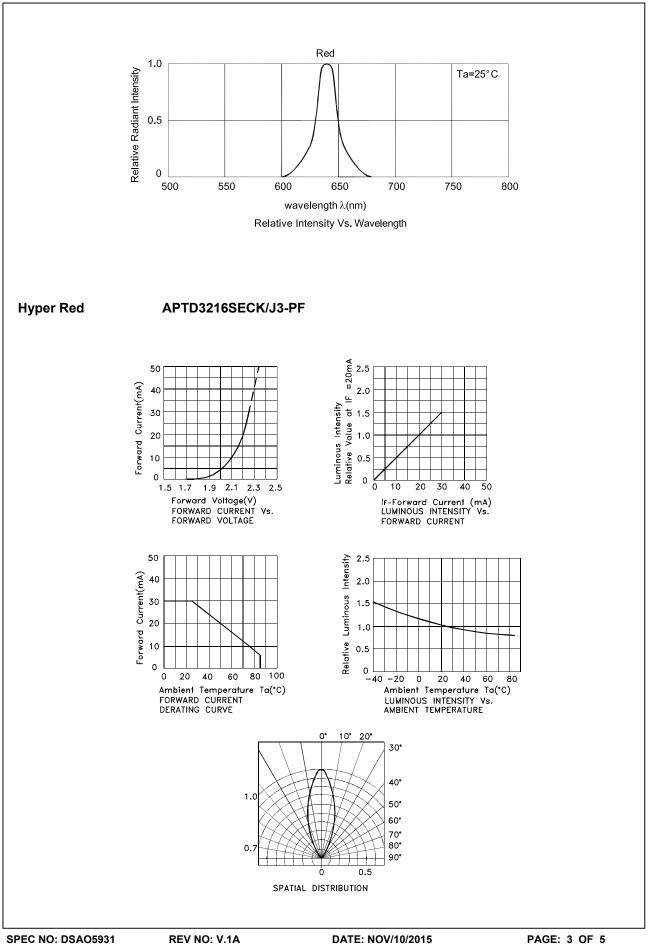
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	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			

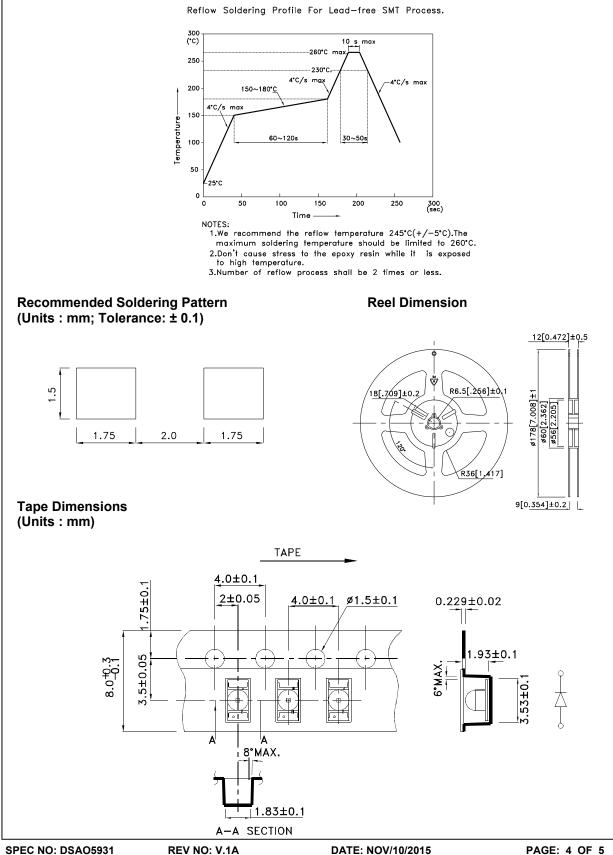
Note:

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



APTD3216SECK/J3-PF

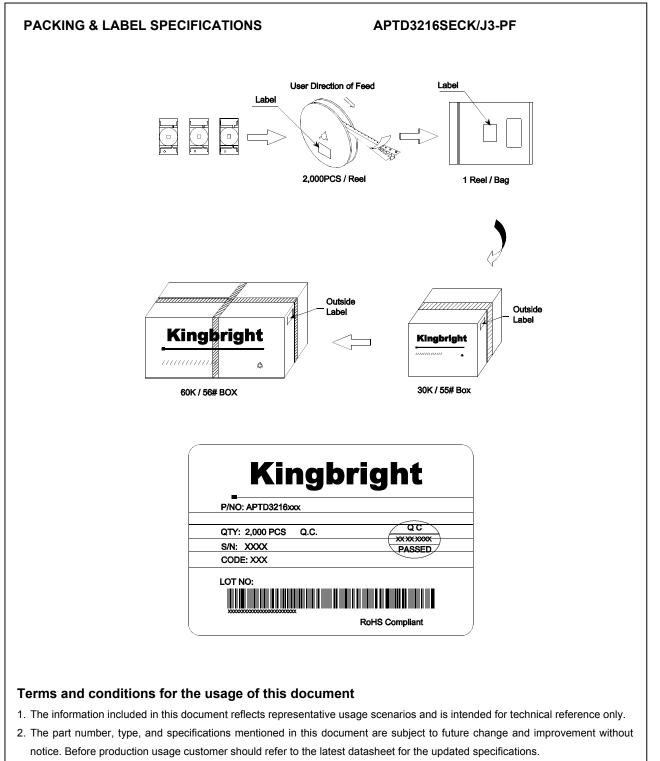
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
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