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Kingbright APT1608LSECK/J3-PRV

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1.6X0.8mm SMD CHIP LED LAMP

Part Number: APT1608LSECK/J3-PRV Hyper Red

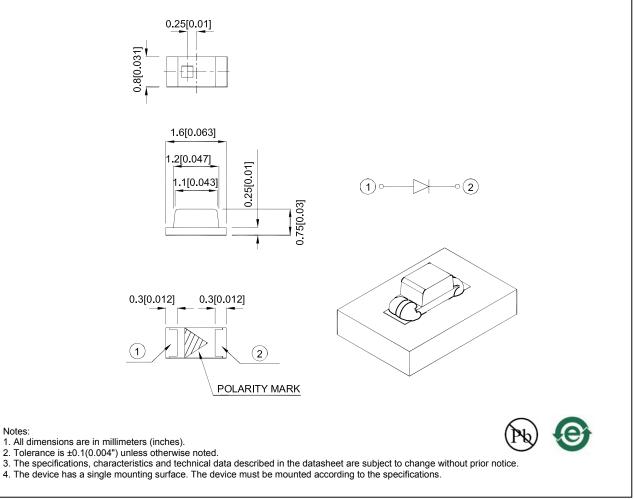
Features

- 1.6mmX0.8mm 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





Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
APT1608LSECK/J3-PRV	Hyper Ped (AlCalaD)	Water Clear	50	100	120°
AFTTOOOLSECK/JS-FRV	Hyper Red (AlGaInP)		*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	I⊧=2mA
λD [1]	Dominant Wavelength	Hyper Red		625		nm	I⊧=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	l⊧=2mA
lr	Reverse Current	Hyper Red			10	uA	VR=5V

Notes:

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

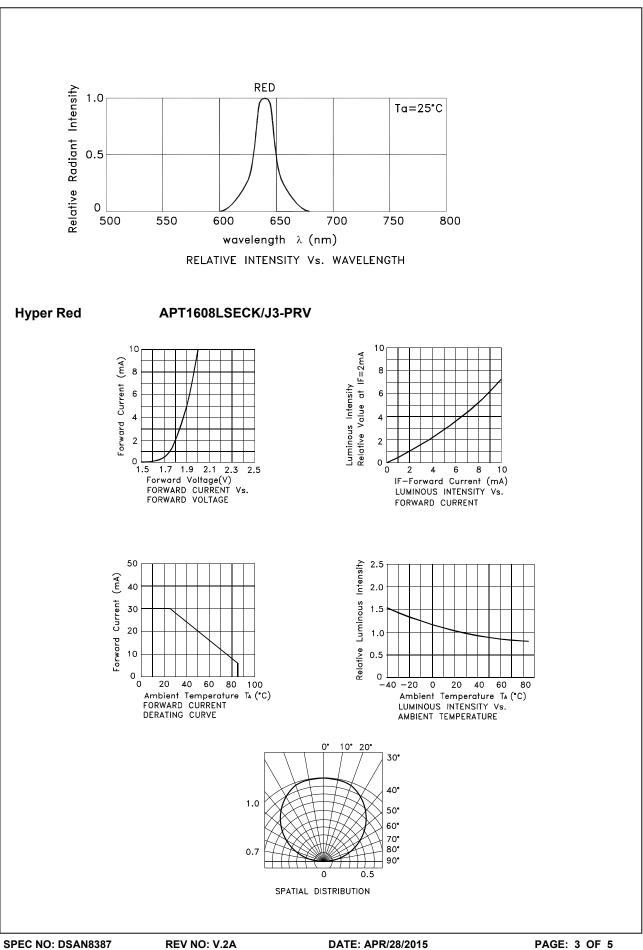
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red U		
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		

Note:

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

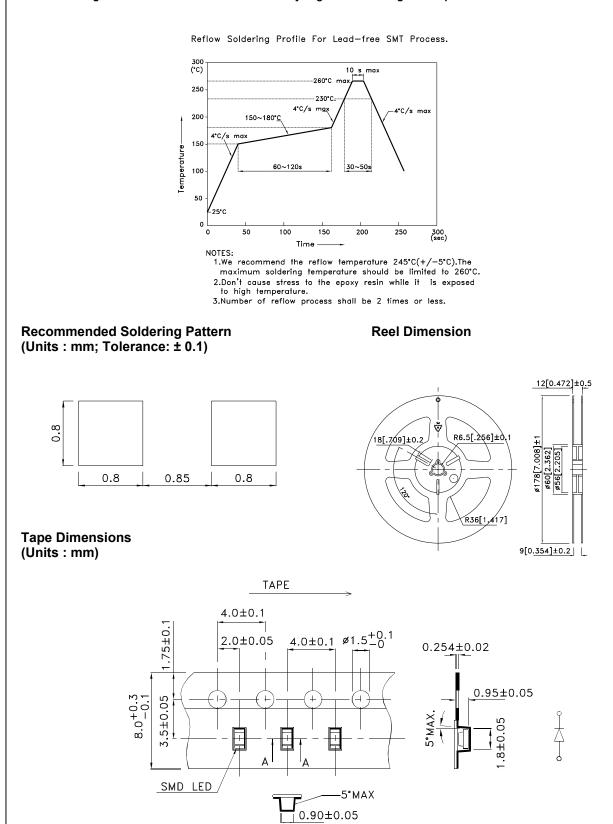






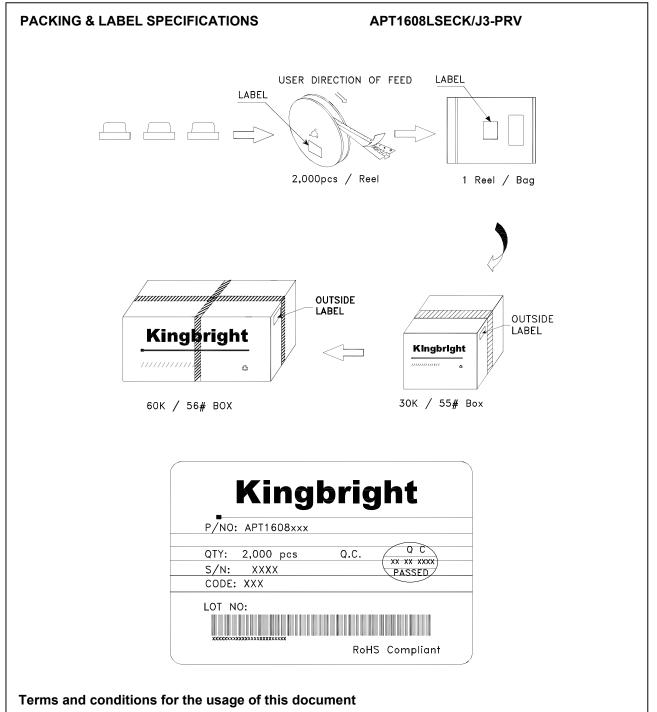
APT1608LSECK/J3-PRV

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.



A-A SECTION





- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
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