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Kingbright APDA3020LSECK/J3-PF

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3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: APDA3020LSECK/J3-PF Hyper Red

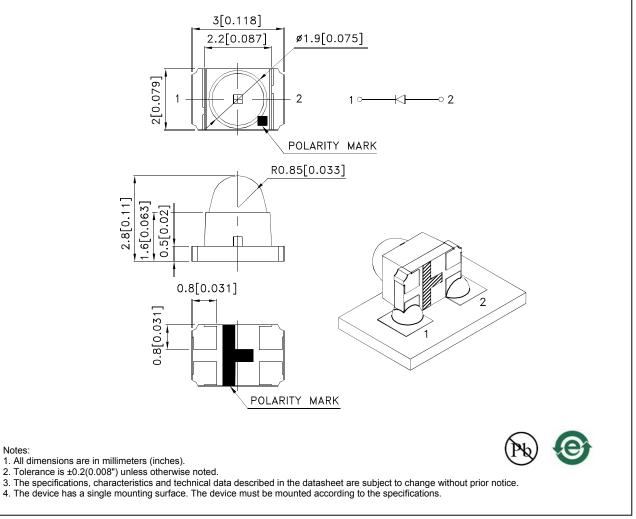
Features

- 3.0mmx2.0mm SMT LED,2.8mm thickness.
- Low power consumption.
- Ideal for back light and indicator
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- Low current IF=2mA operating.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAN8381

REV NO: V.2A

DATE: SEP/15/2014



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min. Typ.		201/2
APDA3020LSECK/J3-PF	Humar Red (AlCalaR)	Water Clear	700	1000	10°
AFDA3020LSECN33-FF	Hyper Red (AlGaInP)	Water Clear	*250	*500	10

Notes:

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

2. 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	I⊧=2mA
С	Capacitance	Hyper Red		27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.5	1.8	2.1	V	I⊧=2mA
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.

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

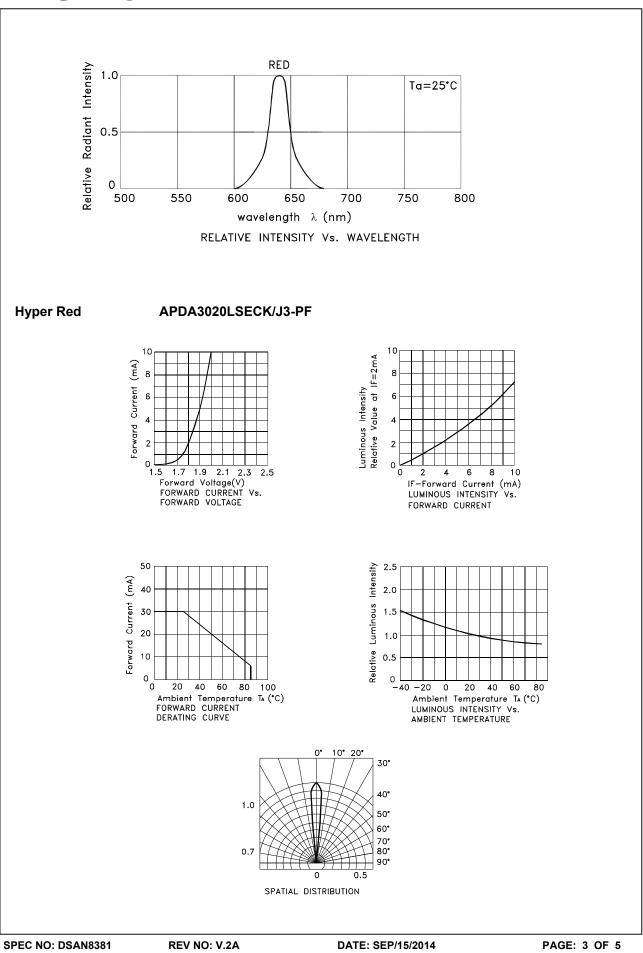
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units		
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.

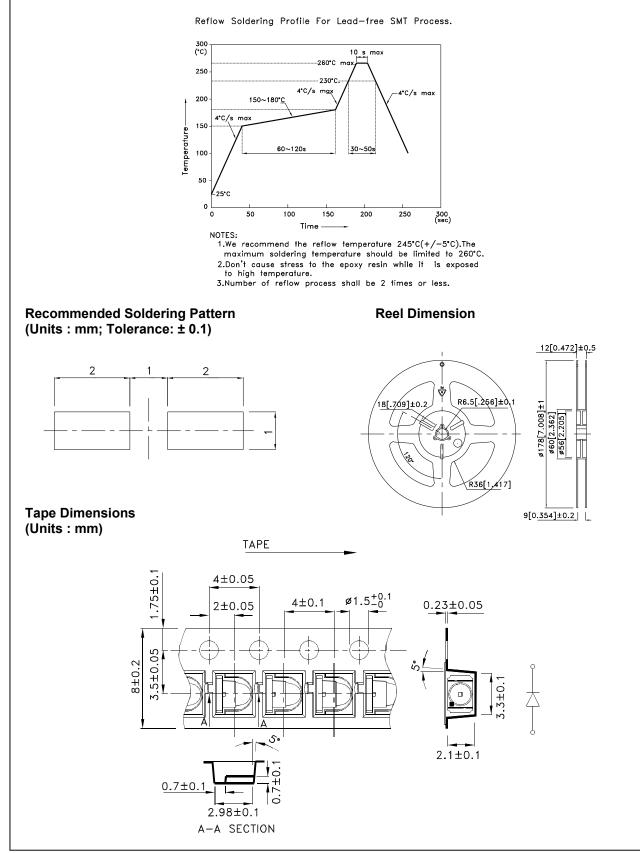






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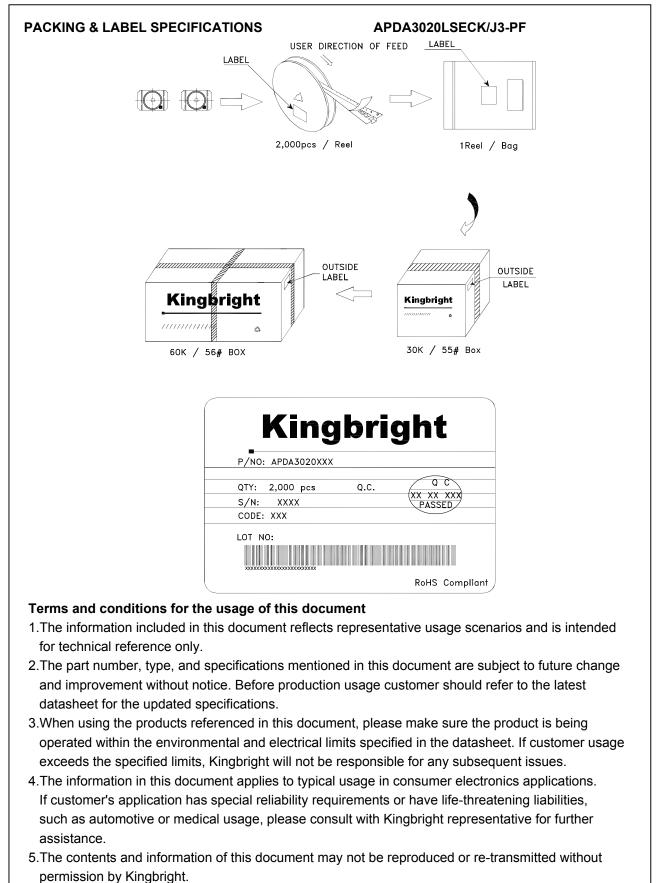
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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6.All design applications should refer to Kingbright application notes available at

http://www.KingbrightUSA.com/ApplicationNotes