3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: KPDA-3020LVSECK-J3-PF Hyper Red

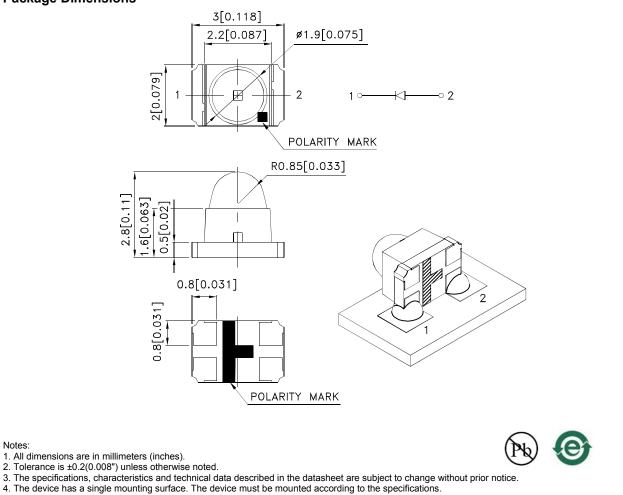
Features

- 3.0mmx2.0mm SMD 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



REV NO: V.2A CHECKED: Allen Liu

DATE: MAY/30/2016 DRAWN: L.T.Zhang

PAGE: 1 OF 5 ERP: 1203014448

Solaction Guida

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPDA-3020LVSECK-J3-PF	Hyper Red (AlGaInP) Water Clea	Water Clear	700	1000	10°
		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.

Luminous intensity / luminous Flux: +/-15%.
Luminous intensity value is traceable to CIE127-2007 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⊧=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	1.8	2.1	V	I⊧=2mA
IR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to CIE127-2007 standards.

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

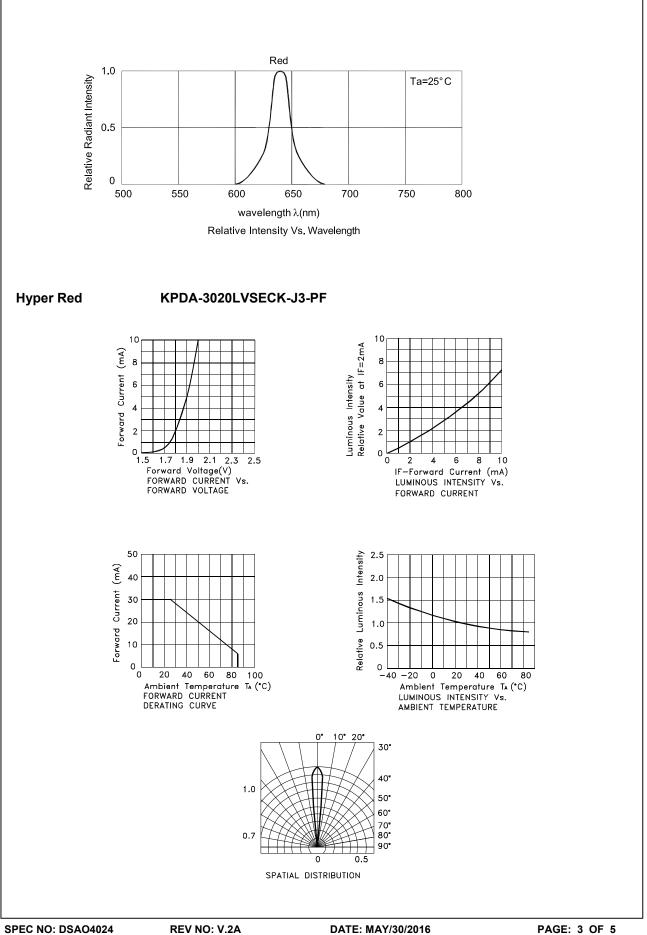
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	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			

Notes:

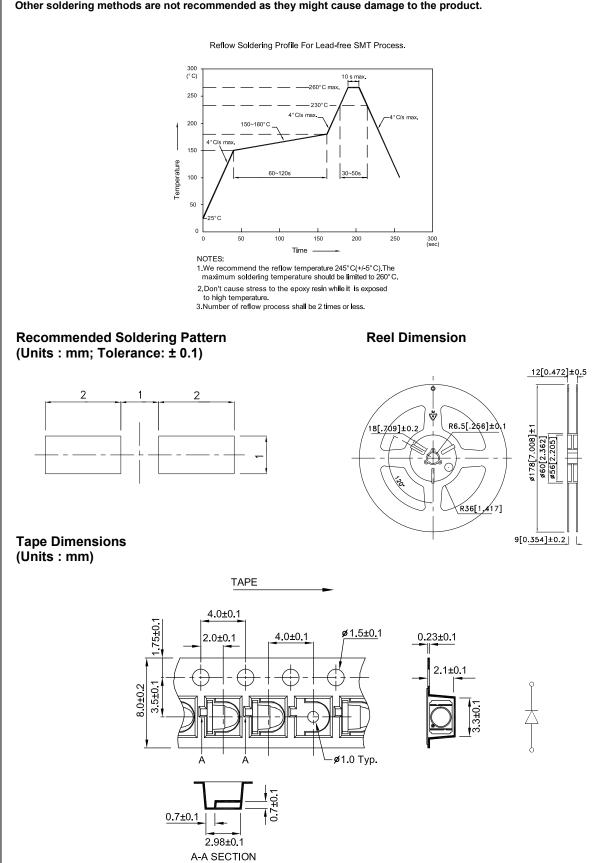
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

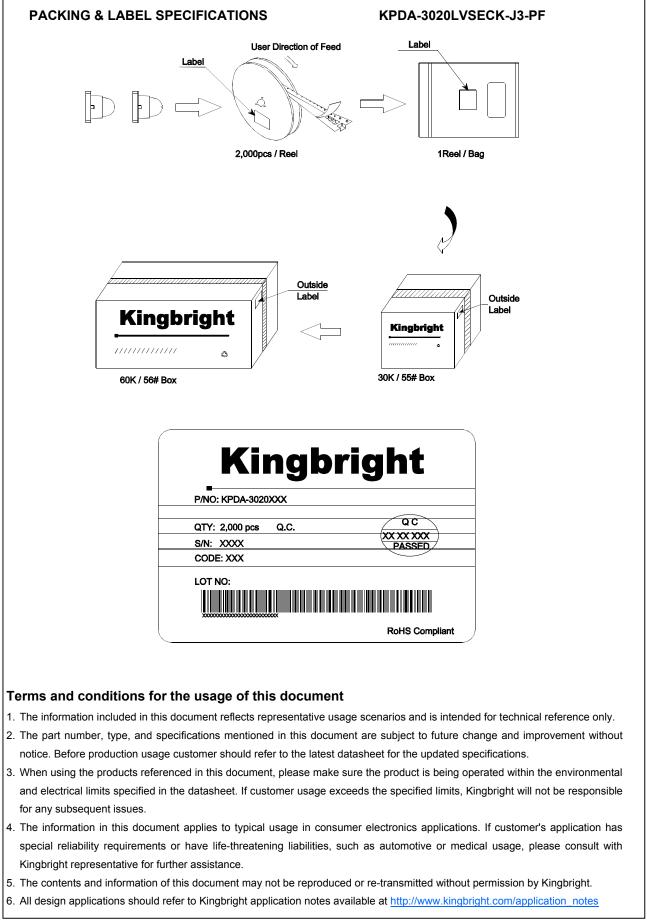


KPDA-3020LVSECK-J3-PF

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.



REV NO: V.2A CHECKED: Allen Liu DATE: MAY/30/2016 DRAWN: L.T.Zhang PAGE: 4 OF 5 ERP: 1203014448



DATE: MAY/30/2016 DRAWN: L.T.Zhang