1.6x0.2mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: APGA1602SEC/E/KA Hyper Red

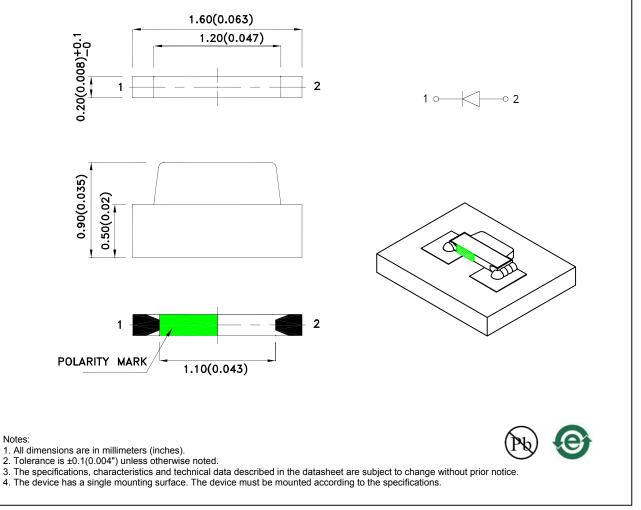
Features

- 1.6mmx0.2mm right angle SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Moisture sensitivity level : level 3.
- Package :2000pcs / reel.
- Tinned pads for improved solderability.
- RoHS compliant.

Package Dimensions



The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.



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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
APGA1602SEC/E/KA	Hyper Red (AlGaInP)	Water Clear	80	200	150 [°] (H) 120 [°] (V)				
			*55	*120					

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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	632		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	624		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	20		nm	IF=20mA
VF [2]	Forward Voltage	Hyper Red	2.05	2.4	V	IF=20mA
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.

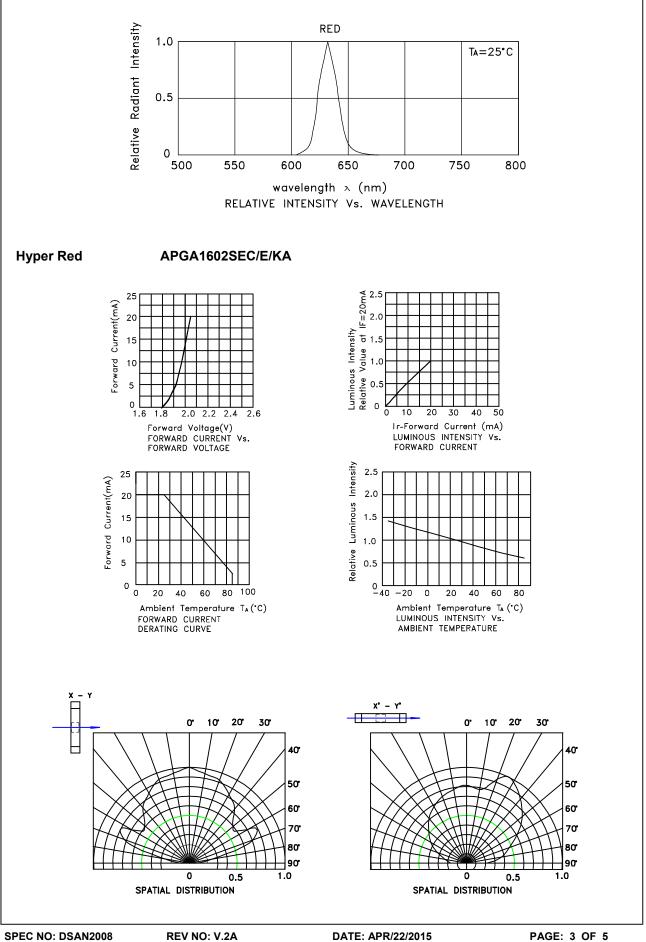
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units	
Power dissipation	48	mW	
DC Forward Current	20	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +100°C		

Note:

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



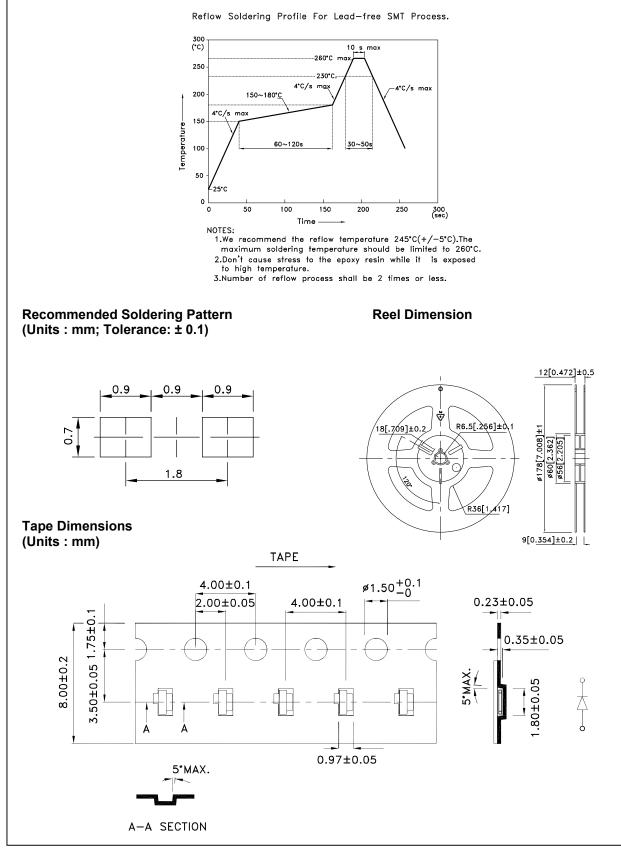
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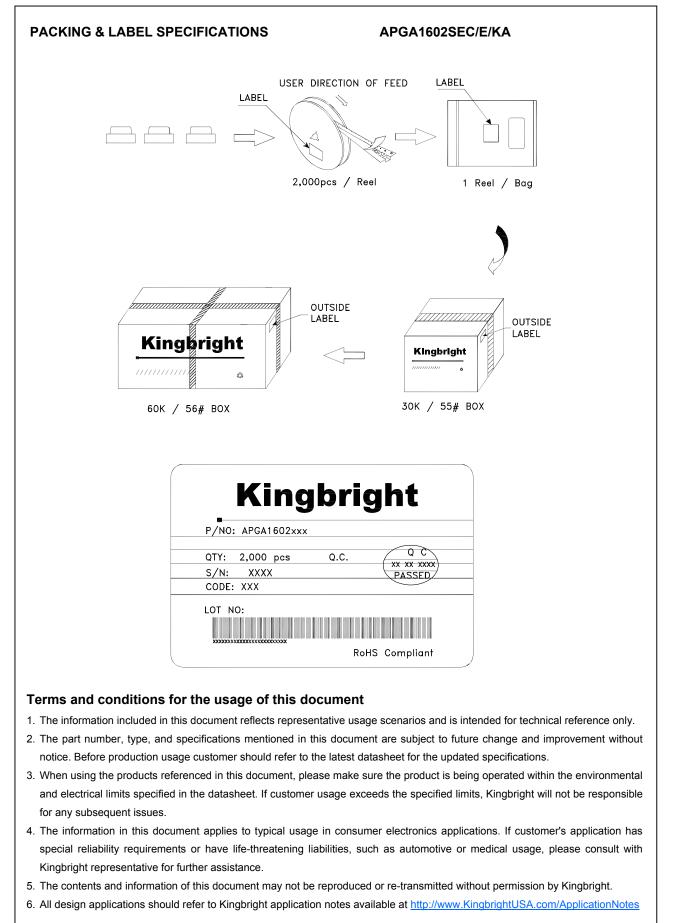
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APGA1602SEC/E/KA

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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