### 1.6x0.2mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPGA-1602SEC-E-KA Hyper Red

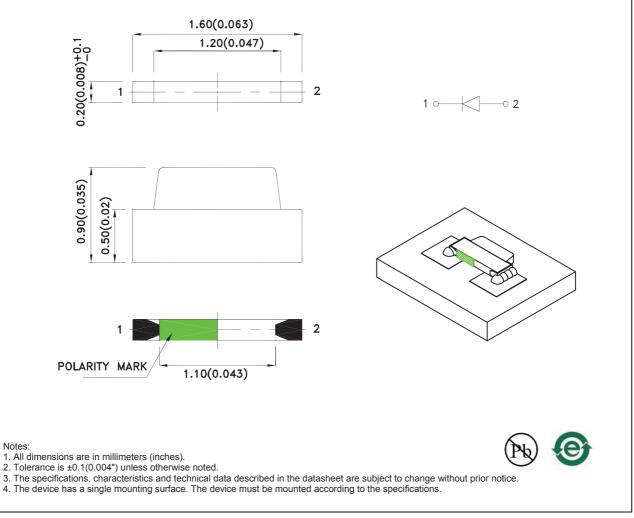
#### Features

- 1.6mmx0.9mm right angle SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Moisture sensitivity level : level 3.
- Package :2000pcs / reel.
- Tinned pads for improved solderability.
- RoHS compliant.

#### **Package Dimensions**

#### Description

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



SPEC NO: DSAN1956 APPROVED: WYNEC REV NO: V.1A CHECKED: Allen Liu DATE: AUG/31/2013 DRAWN: D.N.Huang PAGE: 1 OF 5 ERP: 1203013775

Selection Guide	Iv (mcd) [2] View							
Part No.	Dice	Lens Type	Min.	Тур.	201/2			
KPGA-1602SEC-E-KA	Hyper Red (AlGaInP)	Water Clear	80	200	150°(H) 120°(V)			
			*55	*120				

Notes:

1. 01/2 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	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	I⊧=20mA
VF [2]	Forward Voltage	Hyper Red	2.05	2.4	V	I⊧=20mA
lr	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

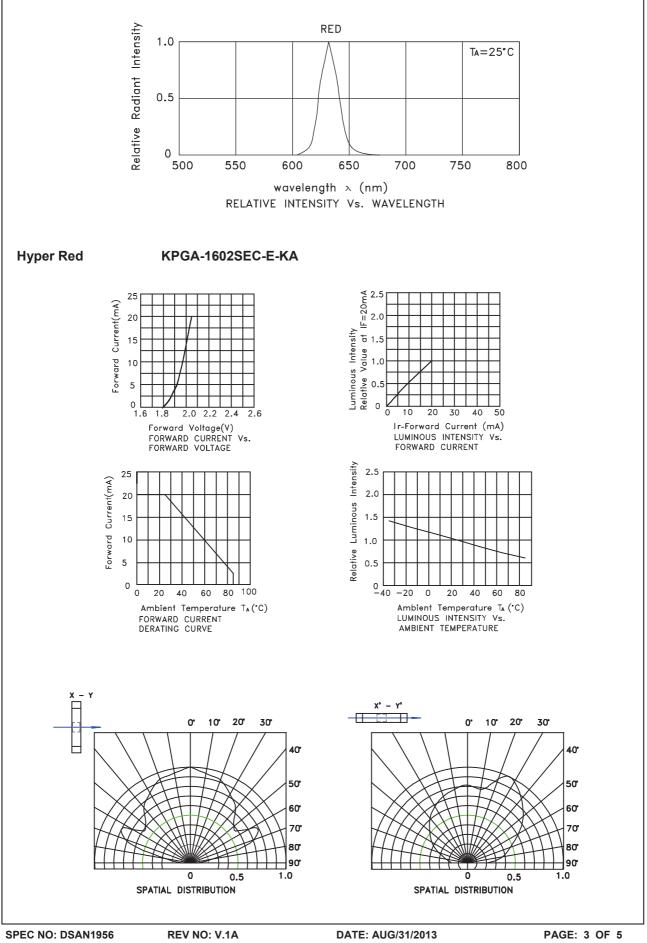
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### 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.



APPROVED: WYNEC

CHECKED: Allen Liu

DRAWN: D.N.Huang

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### KPGA-1602SEC-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.

