1.6x0.8x0.2mm (0603) SMD CHIP LED LAMP

Part Number: KPG1-1608SEC-E-TT Hyper-Red

Features

- 1.6mmX0.8mm SMD LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Applications

Mobile phone Keypad indicator and backlight.
Flat backlight for LCD, switch and symbol.

3.Toys.

1.6 [0.063] 1.2 [0.047] 0.8 [0.031] - 2 2 1 0.2 [0.008]^{+0.05} Polarity mark 0.35 [0.014] 0.35 [0.014] 0.8 [0.031] 0.6 [0.024] 2 1 Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±0.1(0.004") unless otherwise noted. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. The device has a single mounting surface. The device must be mounted according to the specifications.

Package Dimensions

SPEC NO: DSAO4096 APPROVED: Wynec REV NO: V.2A CHECKED: Allen Liu DATE: MAY/18/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1203015080

Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. 60 225 120° KPG1-1608SEC-E-TT Hyper-Red (AlGaInP) Water Clear *75 *20

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	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
С	Capacitance	Hyper-Red	25		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper-Red	2	2.4	V	I⊧=20mA
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.

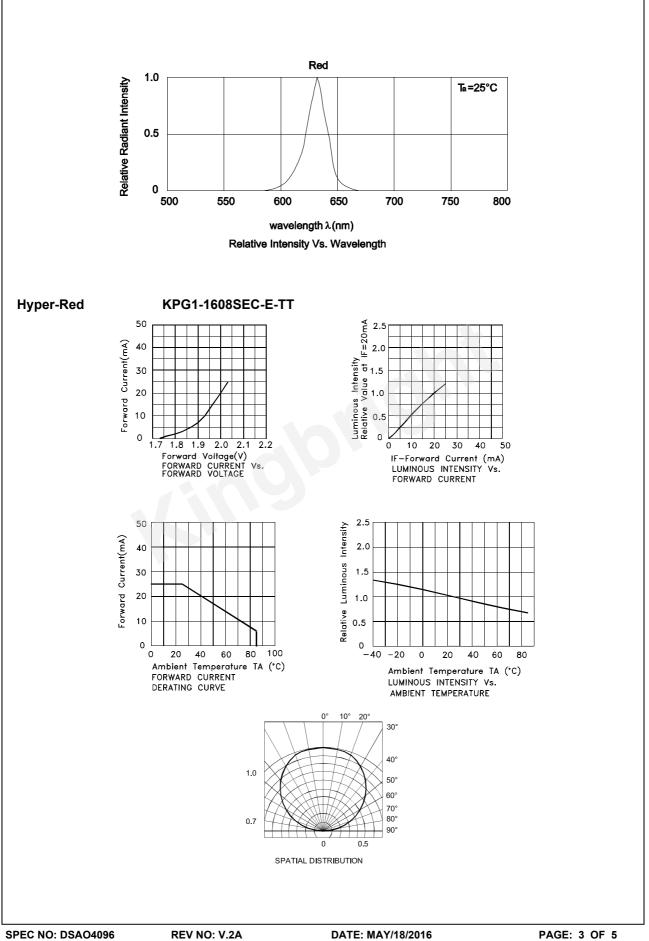
Absolute Maximum Ratings at TA=25°C

Parameter	Values			
Power dissipation	60	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	120			
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

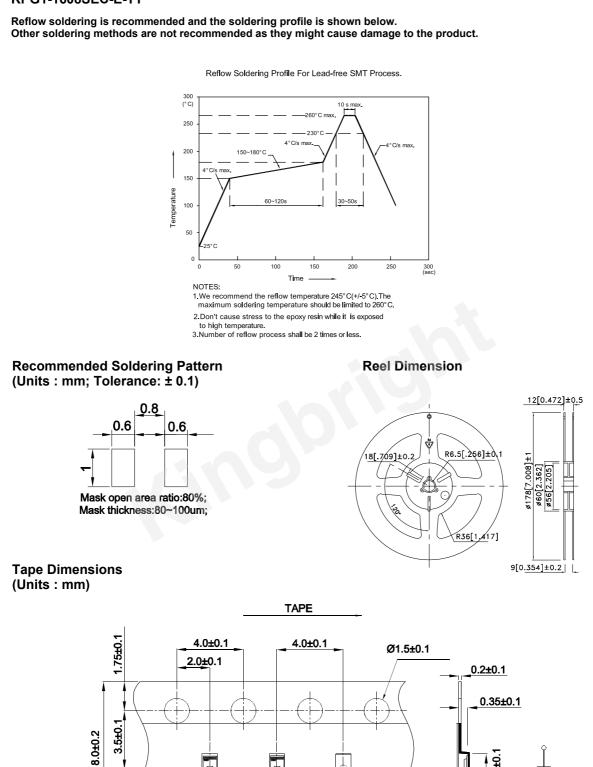
Notes:

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

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.



KPG1-1608SEC-E-TT



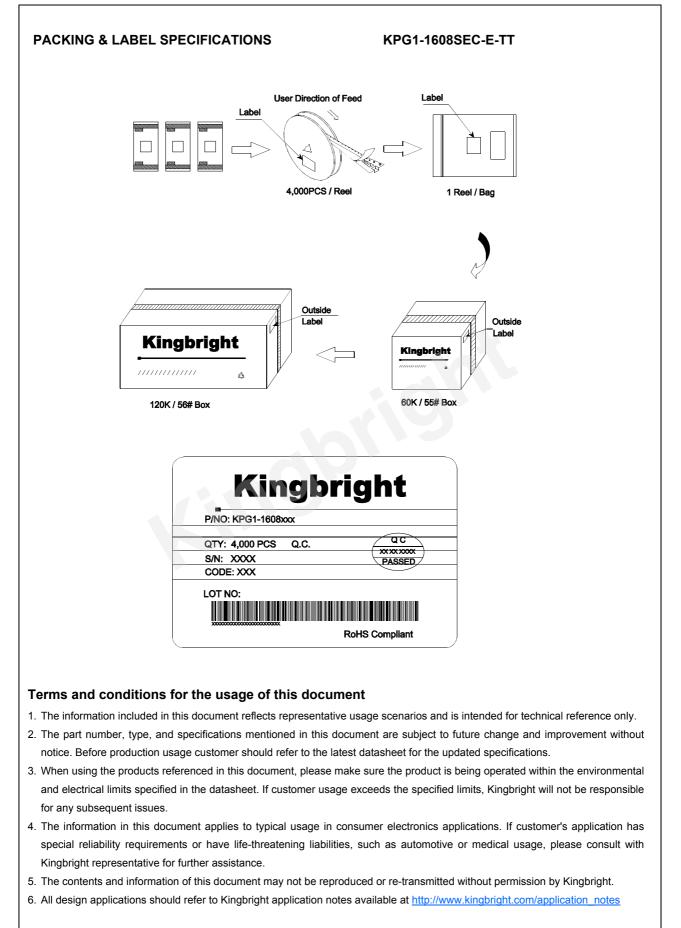
0.93±0.1 A-A SECTION

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Ø0.5 Typ.

K

.84±0.



DATE: MAY/18/2016 DRAWN: W.Q.Zhong