1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPT-1608YC Yellow

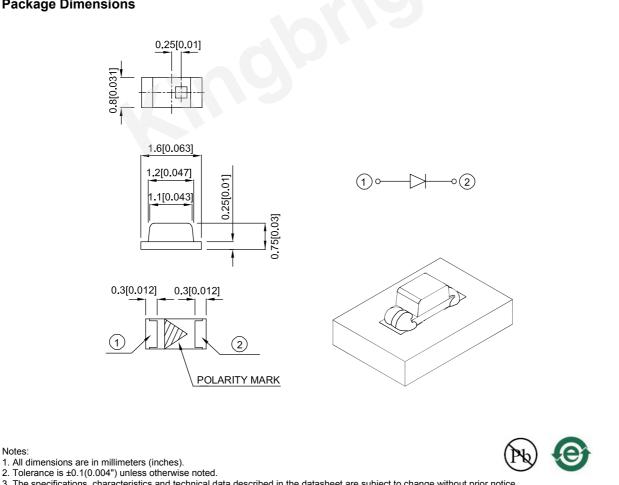
Features

- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



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.

Notes:

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Selection Guide					
Part No.	Dice Lens Type		lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPT-1608YC	Yellow (GaAsP/GaP)	Water Clear	3	8	120°

Notes:

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	Yellow	590		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Yellow	588		nm	I⊧=20mA	
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	I⊧=20mA	
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz	
Vf [2]	Forward Voltage	Yellow	2.1	2.5	V	I⊧=20mA	
lr	Reverse Current	Yellow		10	uA	VR=5V	

Notes:

1. Wavelength: + / -1nm.

Forward Voltage: + / -0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

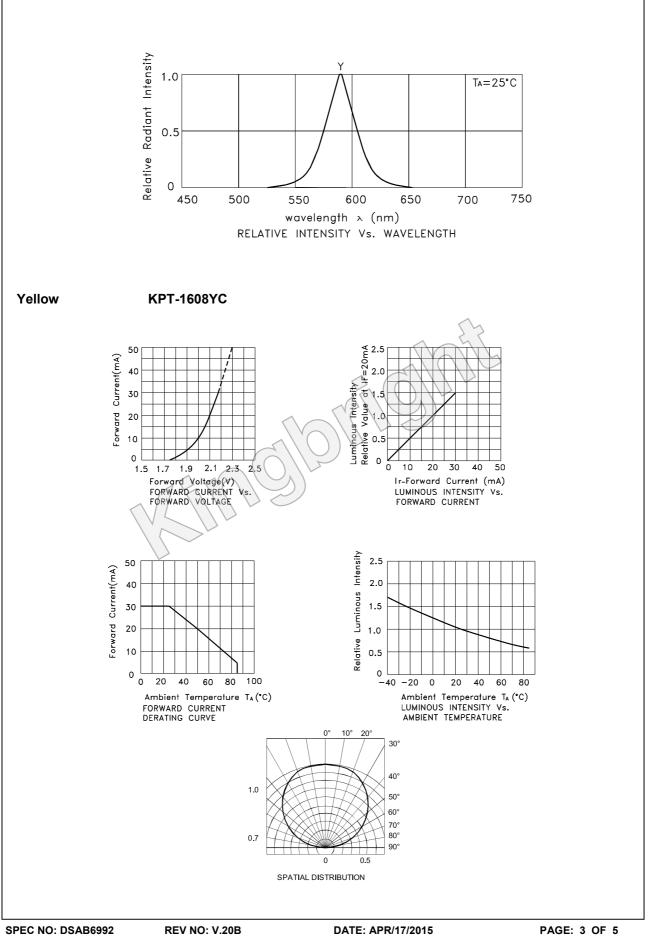
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

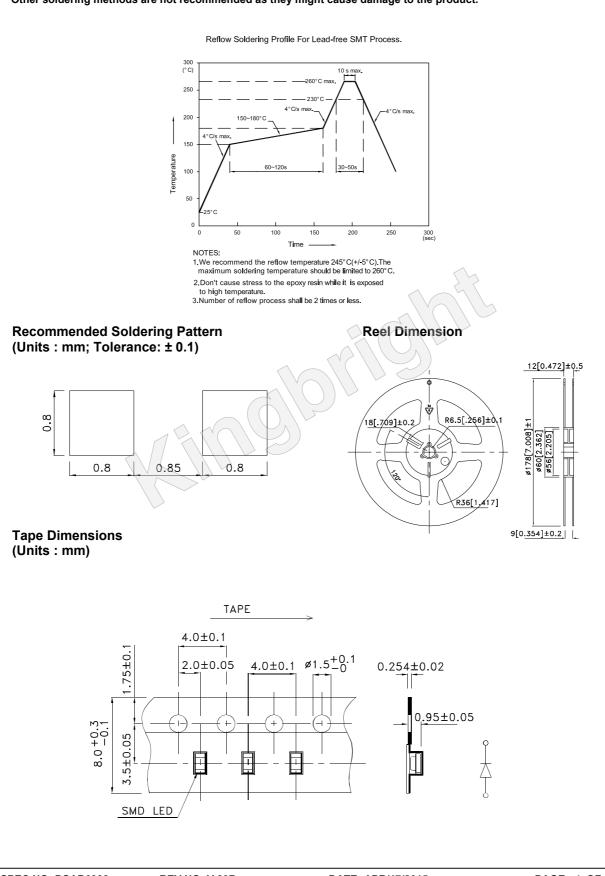
Note:

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

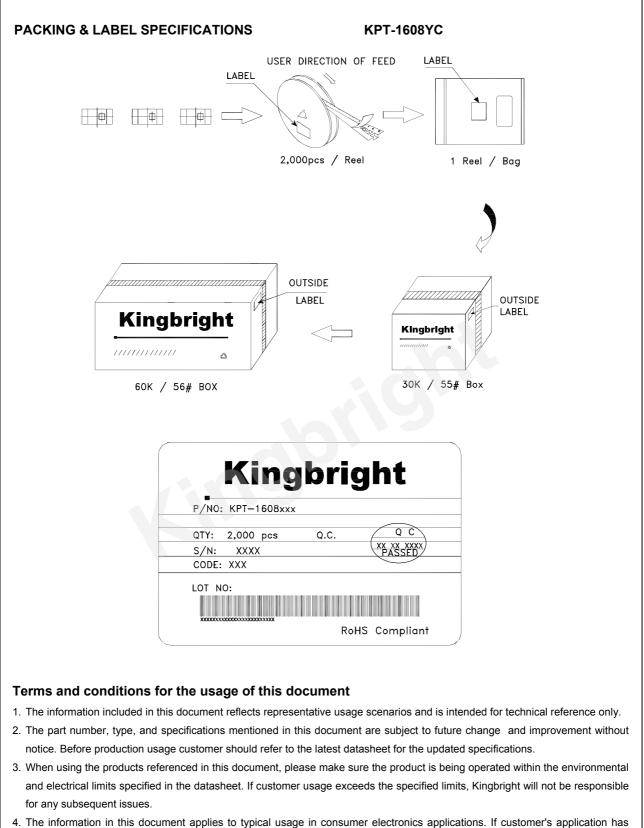


KPT-1608YC

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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- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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