1.0X0.5mm SMD CHIP LED LAMP (0.2mm Height)

PRELIMINARY SPEC

Part Number: KPG-1005SYC-TT

Super Bright Yellow

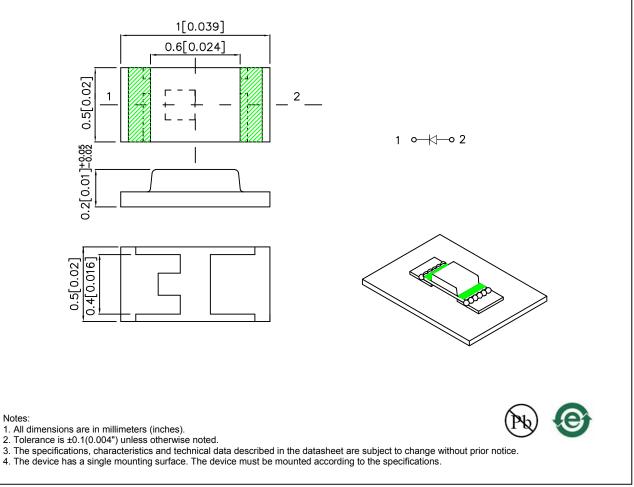
Features

- 1.0mmX0.5mm SMT LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Super Bright Yellow source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



REV NO: V.1 CHECKED: Allen Liu DATE: MAY/09/2013 DRAWN: Y.Liu

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPG-1005SYC-TT	Super Bright Yellow (AlGaInP)	Water Clear	55	100	120°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	591		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	15		nm	I⊧=20mA
VF [2]	Forward Voltage	Super Bright Yellow	2.05	2.4	V	I⊧=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	VR=5V

Notes:

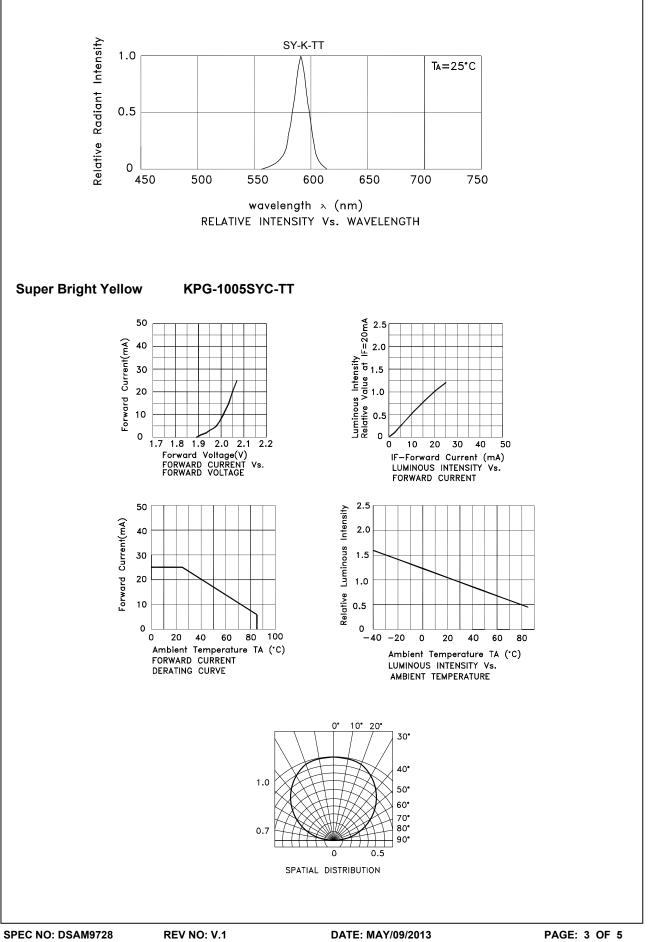
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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

Note:

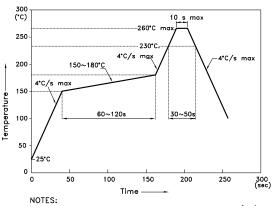
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPG-1005SYC-TT

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.

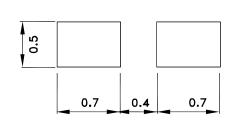
Reflow Soldering Profile For Lead-free SMT Process.

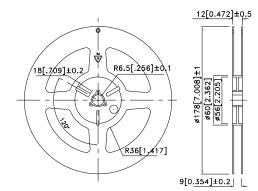


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

Reel Dimension





Tape Dimensions (Units : mm)

