

#### 5.0X6.0mm SURFACE MOUNT LED LAMP

AA5060SYC/H

SUPER BRIGHT YELLOW

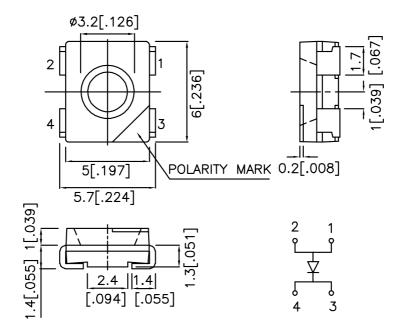
### **Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE: 500PCS / REEL.
- RoHS COMPLIANT.

## **Description**

This devices are made with TS InGaAIP.

## **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.

SPEC NO: DSAB8381 APPROVED: J. Lu REV NO: V.6 CHECKED: Allen Liu DATE: MAR/14/2005 DRAWN: B.H.LI PAGE: 1 OF 4 ERP: 1201000540

# Kingbright

# **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 50mA		Viewing Angle
			Min.	Тур.	201/2
AA5060SYC/H	SUPER BRIGHT YELLOW (InGaAIP)	WATER CLEAR	380	700	100°

Note

# Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Yellow	589		nm	Ir=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=20mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Yellow	2.3	2.8	V	IF=20mA
IR	Reverse Current	Super Bright Yellow		10	uA	VR = 5V

# Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units
Power dissipation	140	mW
DC Forward Current	50	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note

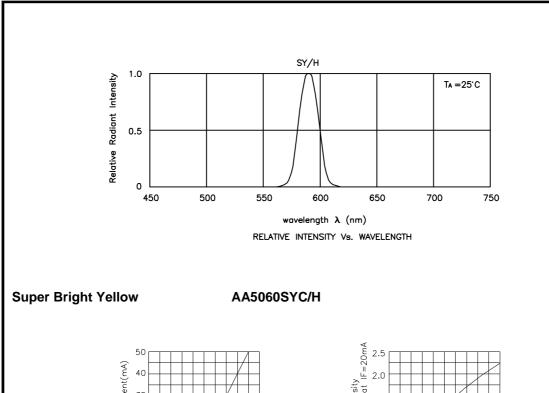
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

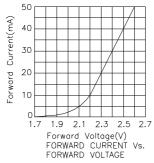
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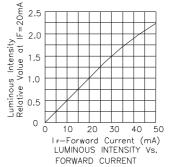
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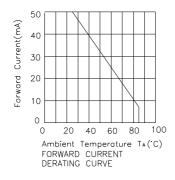
 $<sup>1.\,\</sup>theta1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

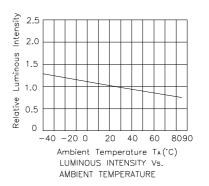
# **Kingbright**

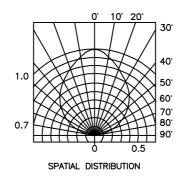












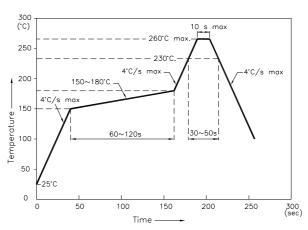
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### AA5060SYC/H

Reflow Soldering Profile For Lead-free SMT Process.

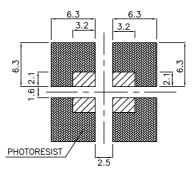


- NOTES:

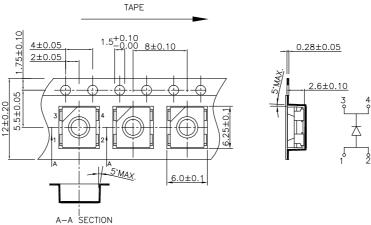
  1. We recommend the reflow temperature  $245^{\circ}\text{C}(+/-5^{\circ}\text{C})$ . The maximum soldering temperature should be limited to 260°C.
  - 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
  - 3. Number of reflow process shall be 2 times or less.

# **Recommended Soldering Pattern**

(Units: mm)



#### **Tape Specifications** (Units: mm)



If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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