

### SUBMINIATURE SOLID STATE LAMP

AM2520SGD08

SUPER BRIGHT GREEN

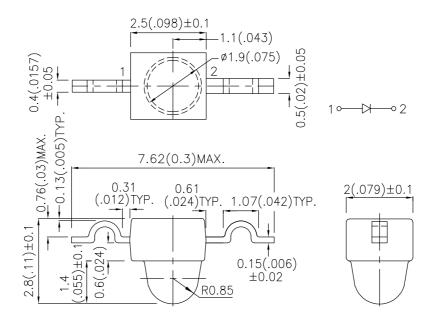
#### **Features**

- •SUBMINIATURE PACKAGE.
- •WIDE VIEWING ANGLE.
- ●YOKE LEAD.
- •LONG LIFE SOLID STATE RELIABILITY.
- •LOW PACKAGE PROFILE.
- ●PACKAGE: 1000PCS / REEL.
- •RoHS COMPLIANT.

#### **Description**

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### **Package Dimensions**



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.

  3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAD1274 **REV NO: V.2** DATE: MAR/05/2005 **PAGE: 1 OF 4** APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1202000646

# Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	201/2
AM2520SGD08	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	2.6	10	40°

Note

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Green		10	uA	VR= 5V

## Absolute Maximum Ratings at Ta=25°C

Parameter	Super Bright Green	Units	
Power dissipation	105	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

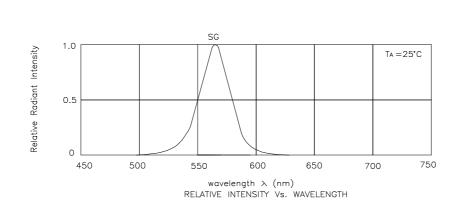
Note

SPEC NO: DSAD1274 REV NO: V.2 DATE: MAR/05/2005 PAGE: 2 OF 4
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1202000646

<sup>1.01/2</sup> is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

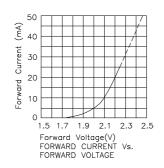
<sup>1. 1/10</sup> Duty Cycle, 0.1ms Pulse Width.

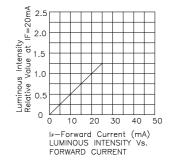
# **Kingbright**

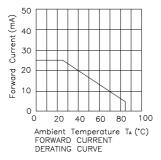


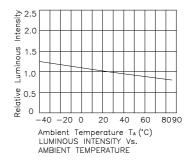
**Super Bright Green** 

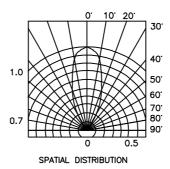
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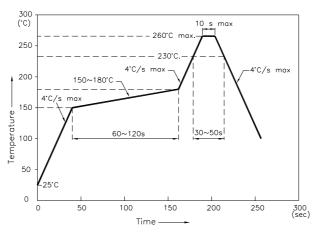


SPEC NO: DSAD1274 REV NO: V.2 DATE: MAR/05/2005 PAGE: 3 OF 4
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1202000646

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#### AM2520SGD08

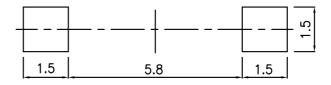
Reflow Soldering Profile For Lead-free SMT Process.



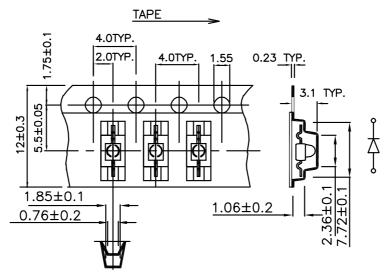
- NOTES:

  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)



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



#### Remarks:

If there is sorting requirement (eg. forward voltage, luminous intensity or wavelength), the condition as follows:

- 1. Wavelength: +/-1nm (Test condition is based on the sorting standard).
- 2.Luminous intensity: +/-15% (Test condition is based on the sorting standard).
- 3. Forward voltage: +/-0.1V (Test condition is based on the sorting standard).

SPEC NO: DSAD1274 **REV NO: V.2** DATE: MAR/05/2005 PAGE: 4 OF 4 APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU ERP:1202000646