

5.0X6.0mm SURFACE MOUNT LED LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

AA5060TGC

GREEN

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

The Green source color devices are made with InGaN on SiC Light Emitting Diode.

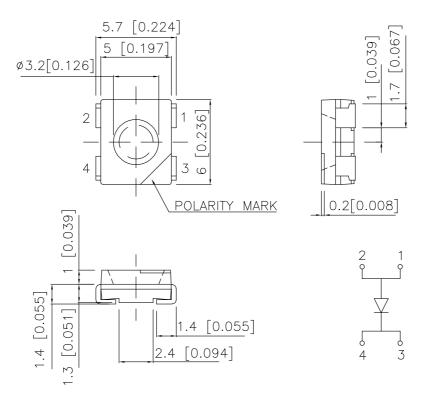
Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or

anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

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: DSAD0901 APPROVED: J. Lu REV NO: V.3 CHECKED: Allen Liu DATE: MAR/09/2005 DRAWN: S.H.CHEN PAGE: 1 OF 4 ERP:1201001118

Kingbright

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 30mA		Viewing Angle
			Min.	Тур.	201/2
AA5060TGC	GREEN (InGaN)	WATER CLEAR	70	250	100°

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	500		nm	IF=20mA
λD	Dominant Wavelength	Green	505		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	56		pF	VF=0V;f=1MHz
VF	Forward Voltage	Green	3.6	4.4	V	IF=20mA
lr	Reverse Current	Green		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Green	Units
Power dissipation	132	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

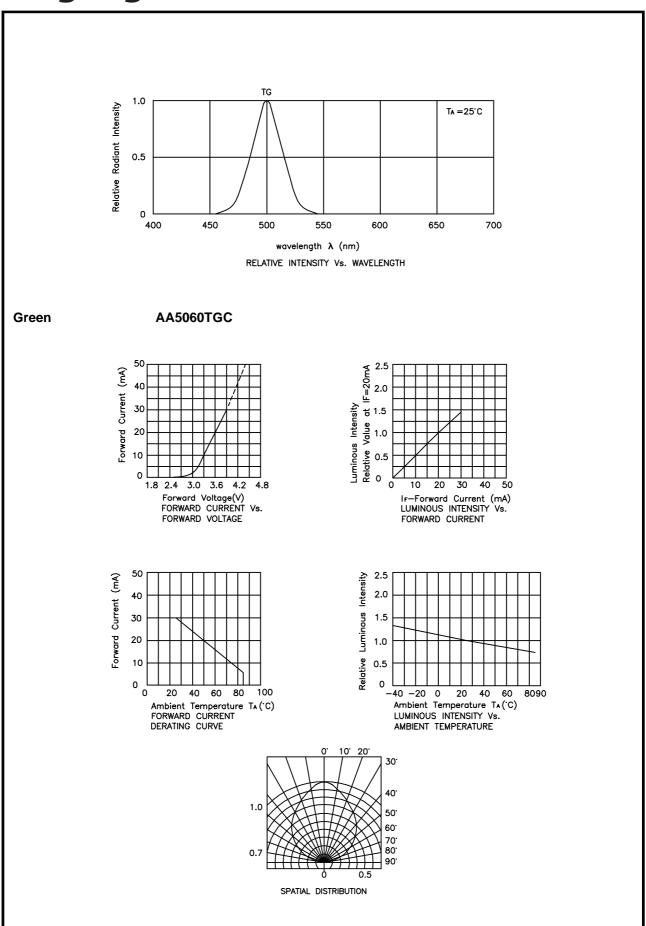
Note:

SPEC NO: DSAD0901 **REV NO: V.3** DATE: MAR/09/2005 PAGE: 2 OF 4 CHECKED: Allen Liu APPROVED: J. Lu DRAWN: S.H.CHEN ERP:1201001118

Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

Kingbright



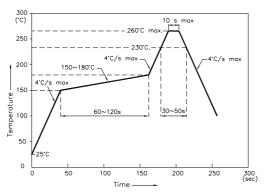
 SPEC NO: DSAD0901
 REV NO: V.3
 DATE: MAR/09/2005
 PAGE: 3 OF 4

 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: S.H.CHEN
 ERP:1201001118

Kingbright

AA5060TGC

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

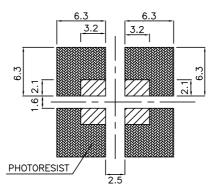
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

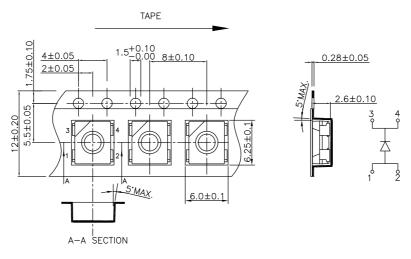
3. Number of reflow process shall be 2 times or less.

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: DSAD0901 **REV NO: V.3** DATE: MAR/09/2005 PAGE: 4 OF 4 APPROVED: J. Lu **CHECKED: Allen Liu** DRAWN: S.H.CHEN ERP:1201001118