

1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Blue

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE

DEVICES

Part Number: APG1608PBAZC-RV

Features

- 1.6mmX0.8mm SMT LED, 0.25mm 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 Blue source color devices are made with InGaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDS.

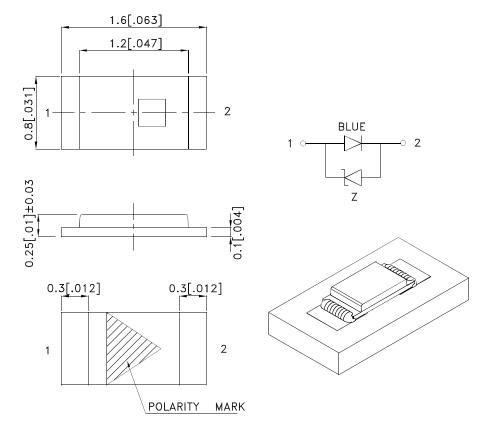
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Applications

- 1. Mobile phone Keypad indicator and backlight.
- 2.Flat backlight for LCD, switch and symbol.
- 3.Toys.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAI5957 **REV NO: V.1 DATE: JUL/31/2008** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.P.Chen ERP: 1203008038

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APG1608PBAZC-RV	Blue (InGaN)	WATER CLEAR	18	35	120°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	I=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	I==20mA

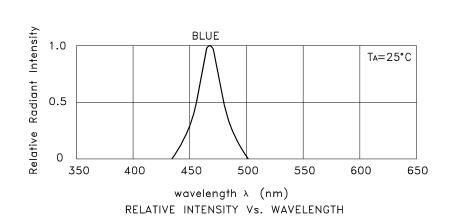
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

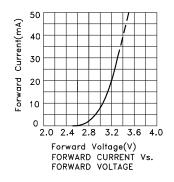
2.000 ideo indxiiidii 14diiigo 4t 17t 20 0						
Parameter	Blue					
Power dissipation	120	mW				
DC Forward Current	30	mA				
Peak Forward Current [1]	100	mA				
Electrostatic Discharge Threshold (HBM)	8000	V				
Operating Temperature	-40°C To +85°C					
Storage Temperature	-40°C To +85°C					

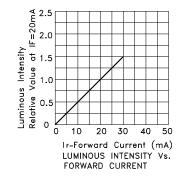
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

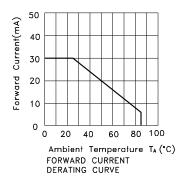
SPEC NO: DSAI5957 **REV NO: V.1** DATE: JUL/31/2008 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.P.Chen ERP: 1203008038

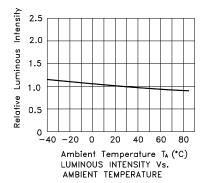


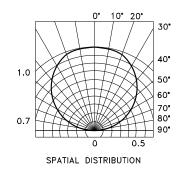
Blue APG1608PBAZC-RV









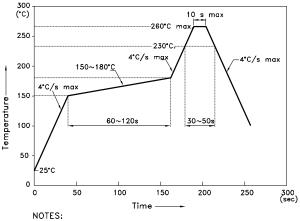


 SPEC NO: DSAI5957
 REV NO: V.1
 DATE: JUL/31/2008
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: S.P.Chen
 ERP: 1203008038

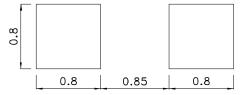
APG1608PBAZC-RV

Reflow Soldering Profile For Lead-free SMT Process.



- 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)

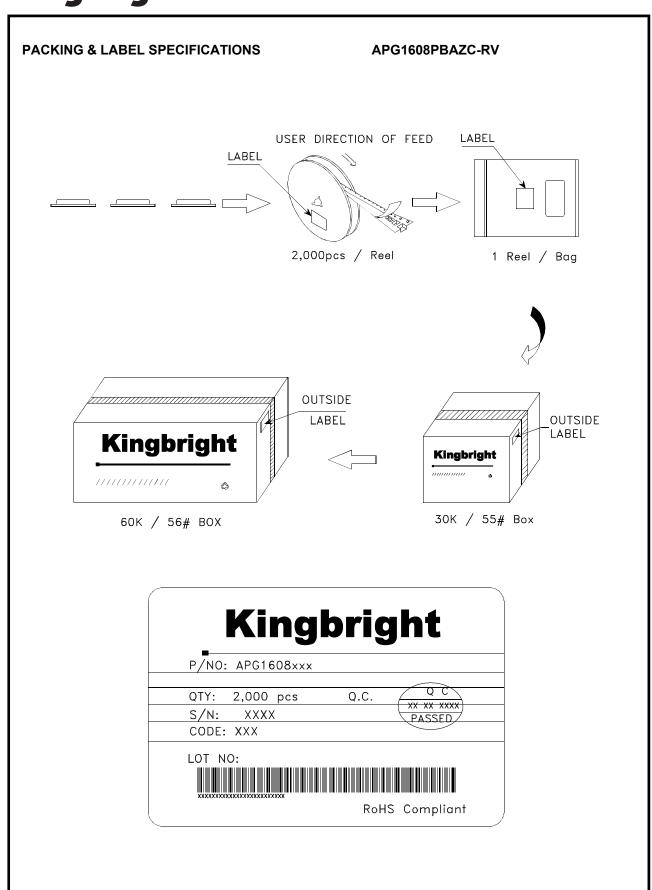


Tape Specifications (Units: mm)

TAPE .75±0.1 4±0.1 4±0.1 2±0.05 ø1<u>.5±</u>0.1 0.25±0.02 0.4±0.05 5±0.05 83土0.05 5°MAX 0.92±0.05

SPEC NO: DSAI5957 APPROVED: WYNEC **REV NO: V.1 CHECKED: Allen Liu** DATE: JUL/31/2008 DRAWN: S.P.Chen PAGE: 4 OF 5

ERP: 1203008038



SPEC NO: DSAI5957 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: JUL/31/2008 DRAWN: S.P.Chen PAGE: 5 OF 5 ERP: 1203008038