3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216ZGC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Features

- •3.2mmX1.6mm SMT LED, 1.8mm thickness.
- •Low power consumption.
- •Ideal for backlight and indicator.
- •Various colors and lens types available.
- ●Package: 2000pcs / reel .
- •Moisture sensitivity level : level 3.
- ●RoHS compliant.

Description

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

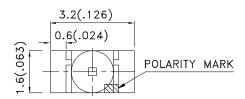
Green

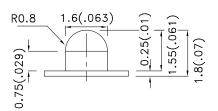
Static electricity and surge damage the LEDS.

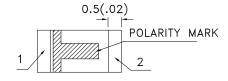
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

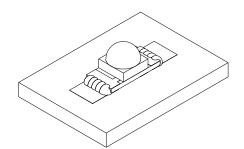
All devices, equipment and machinery must be electrically grounded.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ 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.





PAGE: 1 OF 5 SPEC NO: DSAF2947 **REV NO: V.3** DATE: MAR/25/2009 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1203002332

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
APTD3216ZGC	Green (InGaN)	WATER CLEAR	380	850	50°

- 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	Green	515		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.3	4.1	V	I=20mA
lr	Reverse Current	Green		10	uA	V _R =5V

Notes:

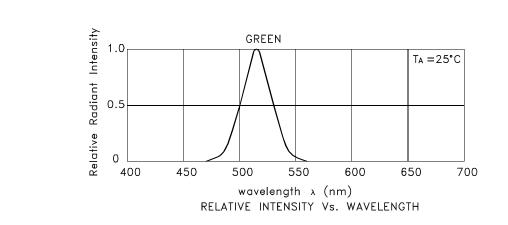
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

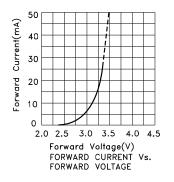
Absolute maximum ratings at 1A 20 0					
Parameter	Green				
Power dissipation	102.5	mW			
DC Forward Current	25	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

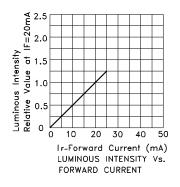
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

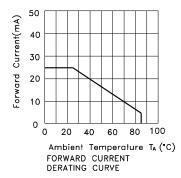
SPEC NO: DSAF2947 **REV NO: V.3** DATE: MAR/25/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1203002332

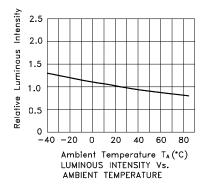


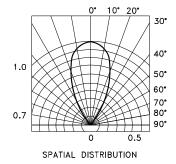
Green APTD3216ZGC











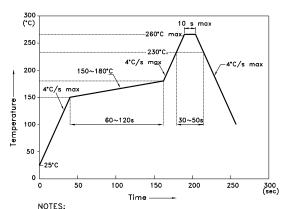
 SPEC NO: DSAF2947
 REV NO: V.3
 DATE: MAR/25/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
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 ERP: 1203002332

APTD3216ZGC

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.



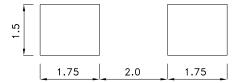
- NOTES:

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

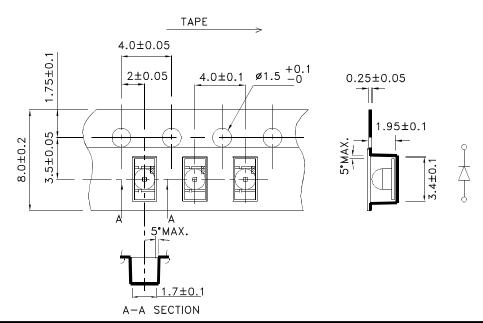
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

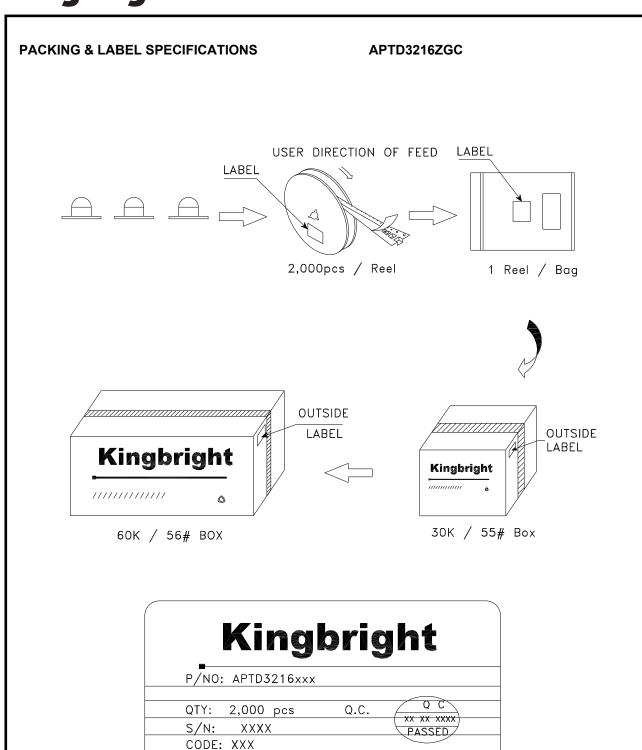
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)



SPEC NO: DSAF2947 **REV NO: V.3** DATE: MAR/25/2009 PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: X.J.Guo ERP: 1203002332



SPEC NO: DSAF2947 APPROVED: WYNEC REV NO: V.3 CHECKED: Allen Liu

LOT NO:

DATE: MAR/25/2009 DRAWN: X.J.Guo

RoHS Compliant

PAGE: 5 OF 5 ERP: 1203002332