

Kingbright

3.2mmx1.6mm SMD CHIP LED LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: APT3216ZGC

Green

Features

- 3.2mmx1.6mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

Description

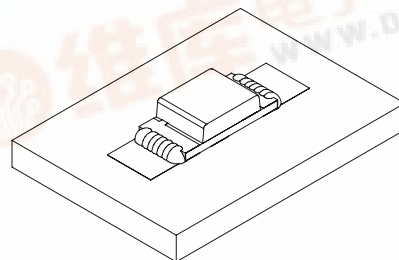
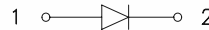
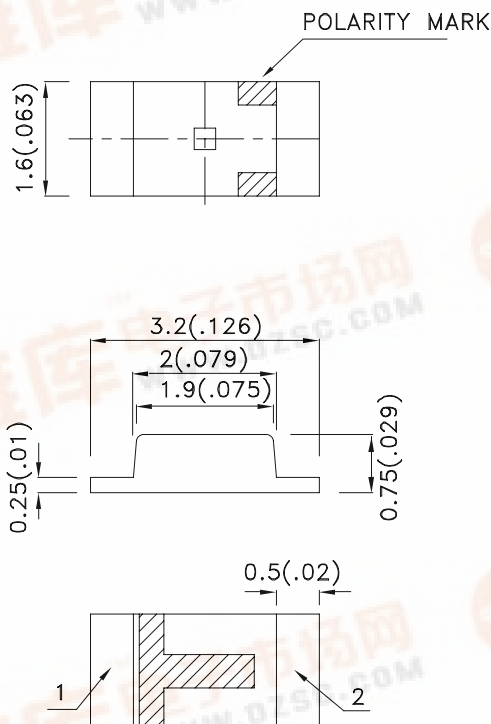
The Green source color devices are made with AlInGaN on Sapphire Light Emitting Diode.

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



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.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APT3216ZGC	Green (AlInGaN)	WATER CLEAR	110	300	120°

Notes:

1. θ1/2 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	Typ.	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
C	Capacitance	Green	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.3	4.1	V	IF=20mA
IR	Reverse Current	Green		10	uA	VR=5V

Notes:

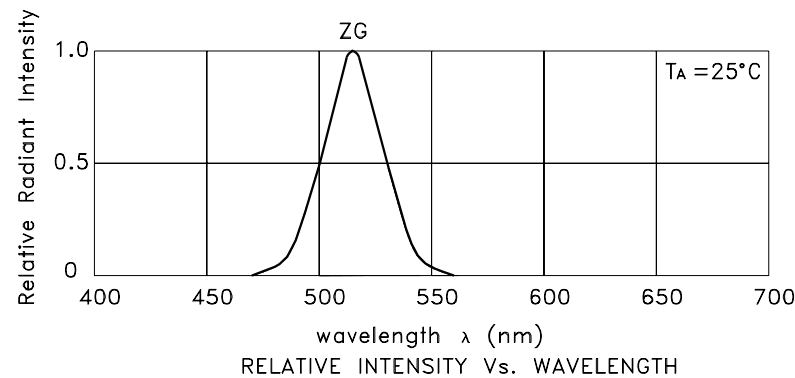
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units
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	

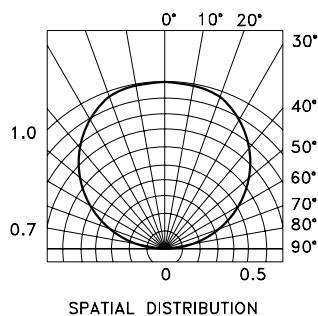
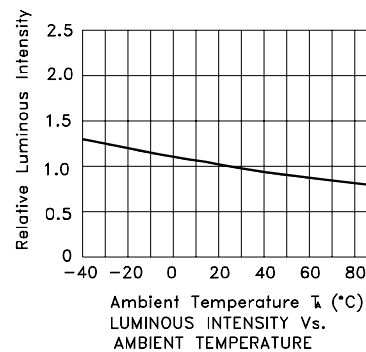
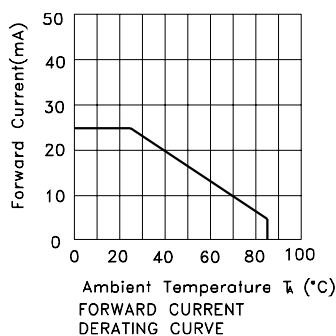
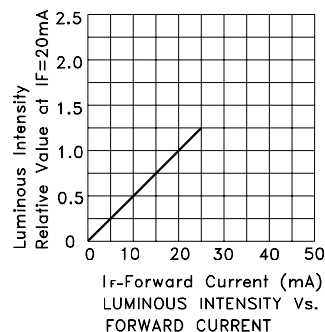
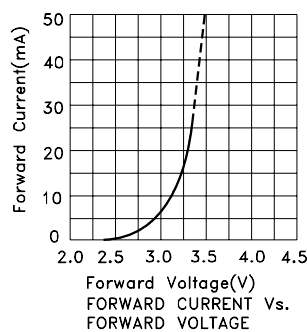
Note:

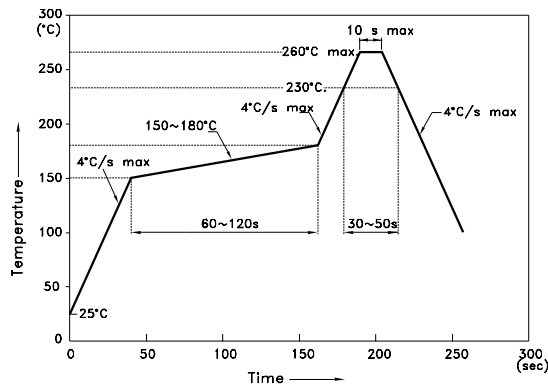
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Green

APT3216ZGC





Technical drawing of a tape with dimensions and a cross-section A-A.

Top View Dimensions:

- Overall width: 8.0 ± 0.2
- Overall length: 1.75 ± 0.1
- Distance from top edge to first hole center: 3.5 ± 0.05
- Hole diameter: $\phi 1.5^{+0.1}_{-0}$
- Distance between hole centers: 4.0 ± 0.1
- Distance from last hole center to right edge: 4.0 ± 0.1
- Distance from bottom edge to hole center line: 3.56 ± 0.1
- Distance from bottom edge to first hole center: 2.0 ± 0.05
- Distance from bottom edge to last hole center: 1.85 ± 0.1

Section A-A Dimensions:

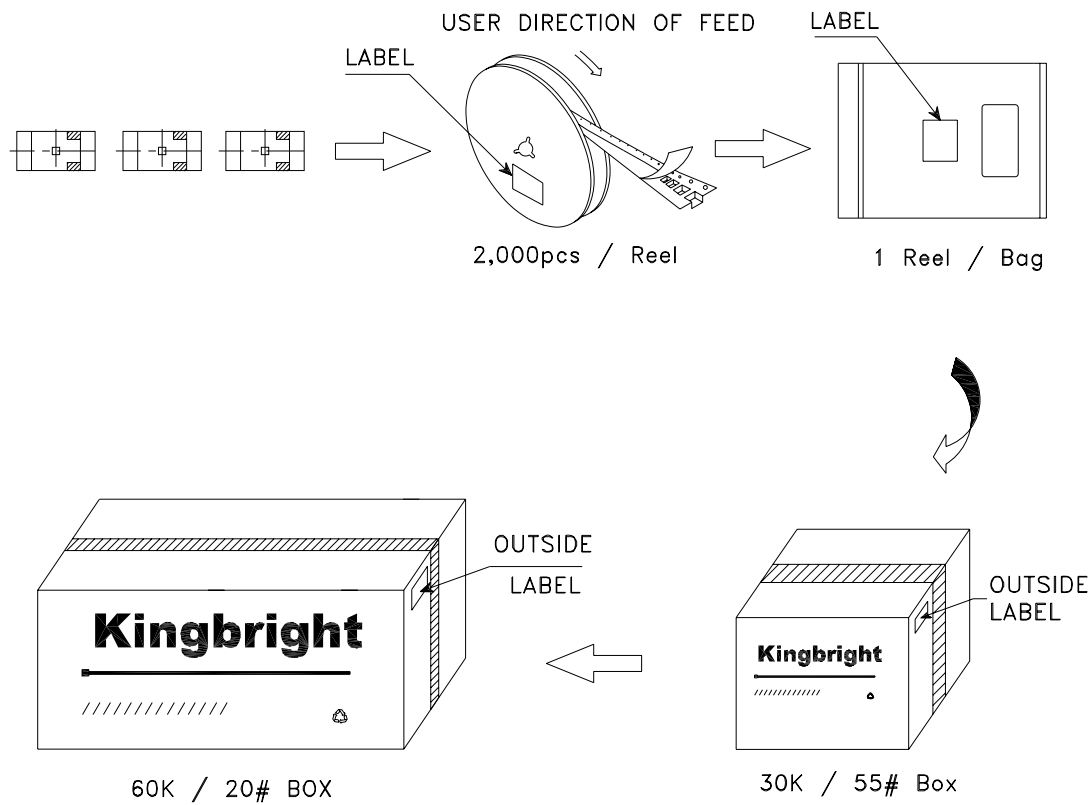
- Section line: A-A
- Section width: 5^{*}MAX.
- Section height: 1.04 ± 0.1
- Section thickness: 0.22 ± 0.05
- Section angle: 5^{*}MAX.

Other Labels:

- TAPE
- A-A SECTION

PACKING & LABEL SPECIFICATIONS

APT3216ZGC



Kingbright	
P/NO: APT3216xxx	
QTY: 2,000 pcs	Q.C. Q C xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
	
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
MADE IN CHINA	RoHS Compliant