

3.0mmx1.0 mm RIGHT ANGLE SMD **CHIP LED LAMP**

Part Number: APA3010YC-GX Yellow

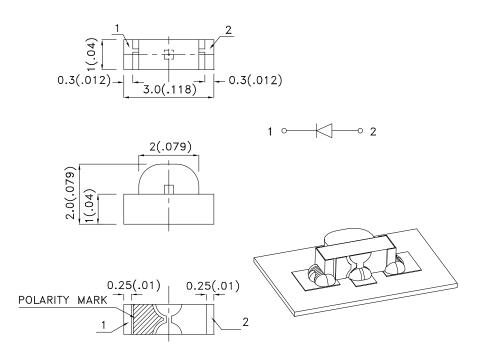
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAL5010 **REV NO: V.1 DATE: DEC/23/2010** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.H.Wu ERP: 1203000663

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APA3010YC-GX	Yellow (GaAsP/GaP)	Water Clear	5	8	120°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak 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	Yellow	590		nm	IF=20mA		
λD [1]	Dominant Wavelength	Yellow	588		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	IF=20mA		
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Yellow	2.1	2.5	V	IF=20mA		
lr	Reverse Current	Yellow		10	uA	V _R =5V		

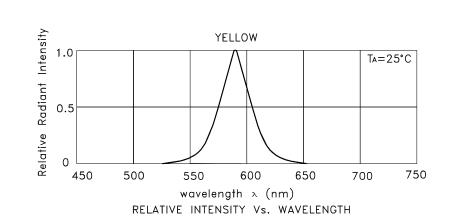
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow		
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

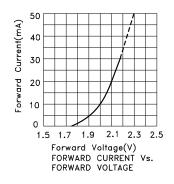
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

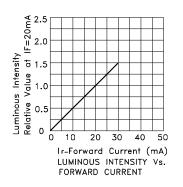
SPEC NO: DSAL5010 **REV NO: V.1** DATE: DEC/23/2010 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.H.Wu ERP: 1203000663

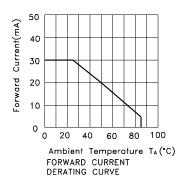


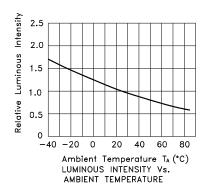
Yellow

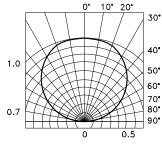
APA3010YC-GX











SPATIAL DISTRIBUTION

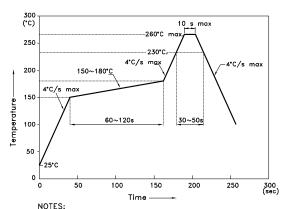
 SPEC NO: DSAL5010
 REV NO: V.1
 DATE: DEC/23/2010
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.H.Wu
 ERP: 1203000663

APA3010YC-GX

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.

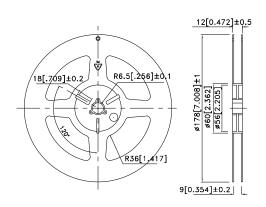
 3.Number of reflow process shall be 2 times or less.

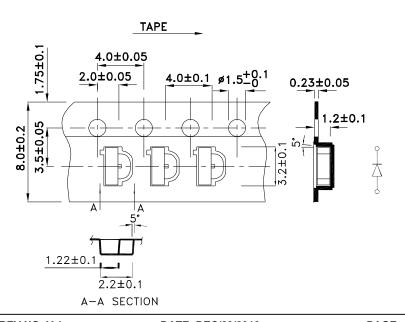
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.9

Tape Dimensions (Units : mm)

Reel Dimension





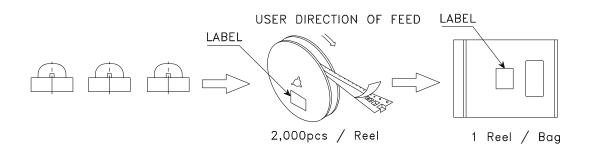
 SPEC NO: DSAL5010
 REV NO: V.1
 DATE: DEC/23/2010
 PAGE: 4 OF 5

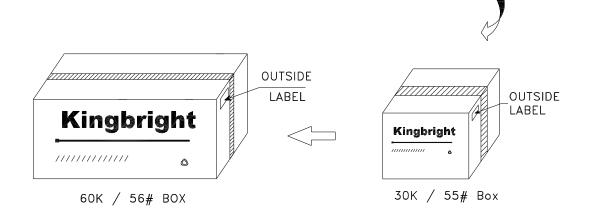
 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.H.Wu
 ERP: 1203000663

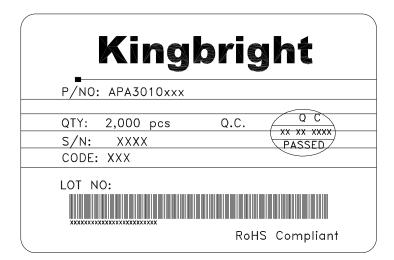
3---

PACKING & LABEL SPECIFICATIONS

APA3010YC-GX







SPEC NO: DSAL5010 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: DEC/23/2010 DRAWN: Y.H.Wu PAGE: 5 OF 5 ERP: 1203000663