

### Features

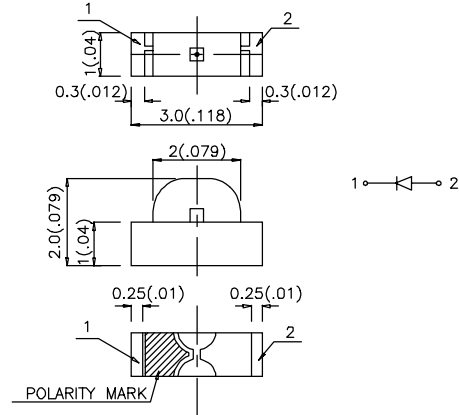
- 3.0mmx1.0mm SMT LED, 2.0mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

APA3010NC PURE ORANGE

### Package Dimensions

### Description

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



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.15$  (0.006") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
APA3010NC	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	5	12	2 $\theta$ 1/2 120°

### Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

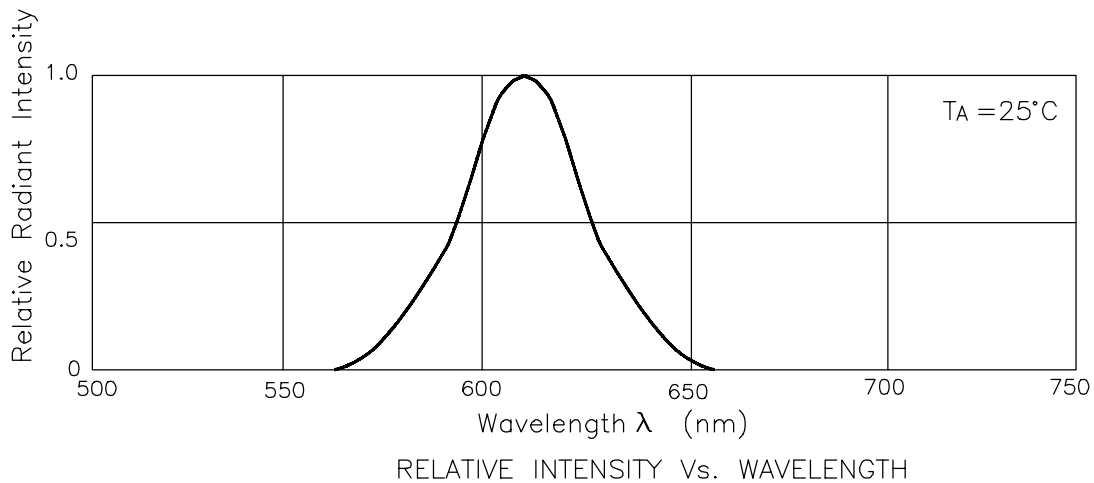
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Pure Orange	610		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Pure Orange	35		nm	IF=20mA
C	Capacitance	Pure Orange	15		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Pure Orange	2.0	2.6	V	IF=20mA
I <sub>R</sub>	Reverse Current	All		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

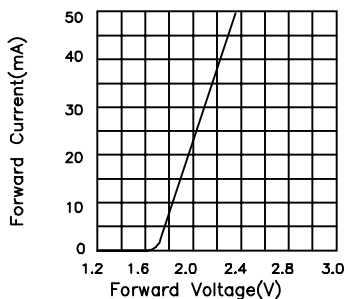
Parameter	Pure Orange	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

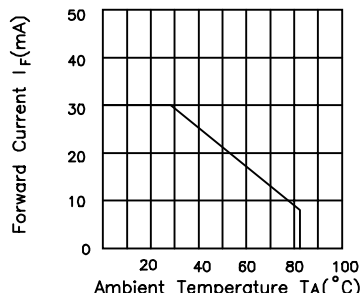
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



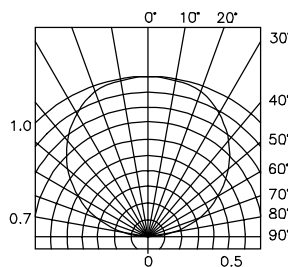
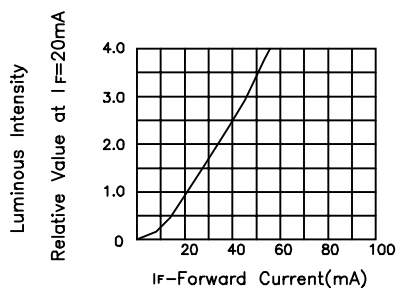
## Pure Orange APA3010NC



FORWARD CURRENT Vs. FORWARD VOLTAGE

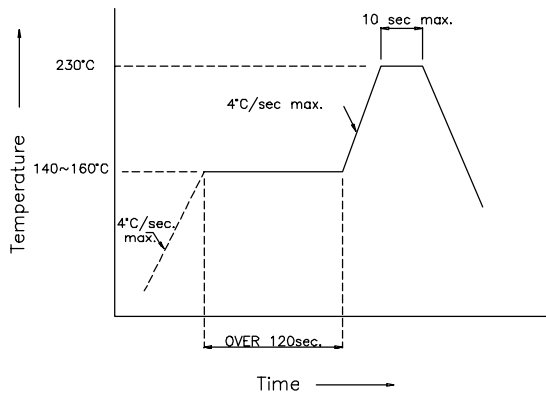


FORWARD CURRENT DERATING CURVE



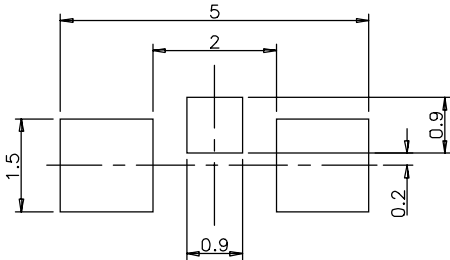
SPATIAL DISTRIBUTION

## APA3010NC SMT Reflow Soldering Instructions



## APA3010NC Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



## APA3010NC Tape Specifications (Units : mm)

