

APB3025NSGC

Features

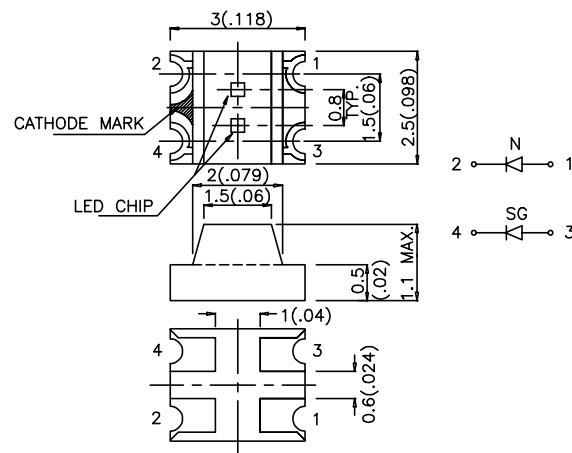
- 3.0mmx2.5mm SMT LED, 1.1mm THICKNESS.
- BI -COLOR,LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

Description

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

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.0079)$ 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.	θ1/2
APB3025NSGC	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	5	12	120°
	SUPER BRIGHT GREEN (GaP)		3	12	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

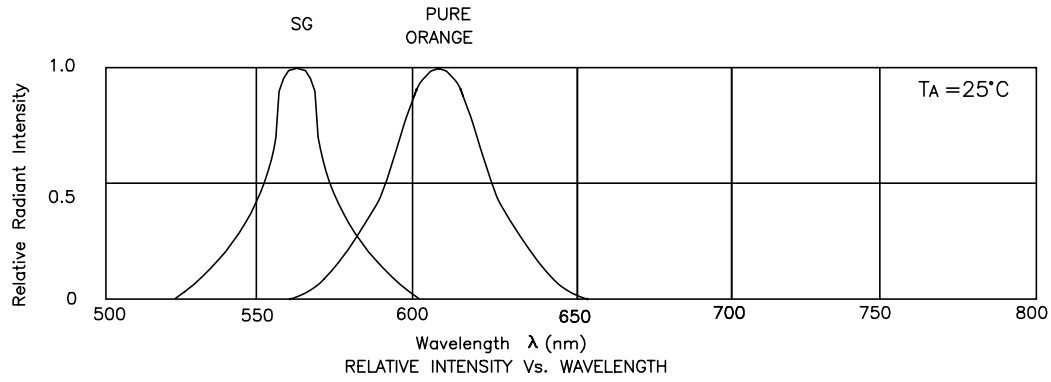
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Pure Orange Super Bright Green	610 565		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Pure Orange Super Bright Green	30 30		nm	IF=20mA
C	Capacitance	Pure Orange Super Bright Green	45 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Pure Orange Super Bright Green	2.0 2.2	2.6 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

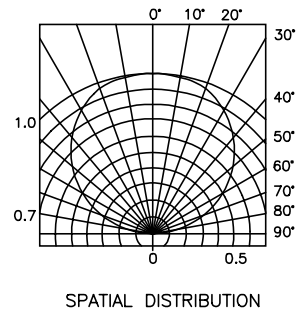
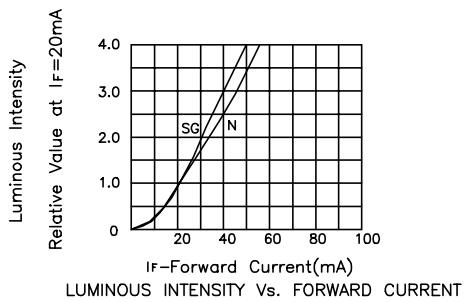
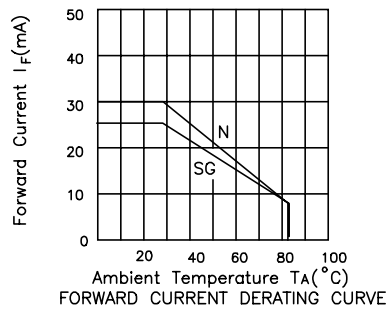
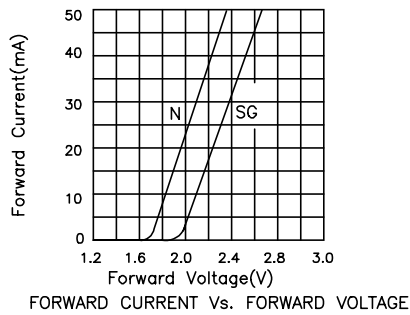
Parameter	Orange	Super Bright Green	Units
Power dissipation	105	105	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	150	150	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		
Lead Soldering Temperature [2]	260°C For 5 Seconds		

Note:

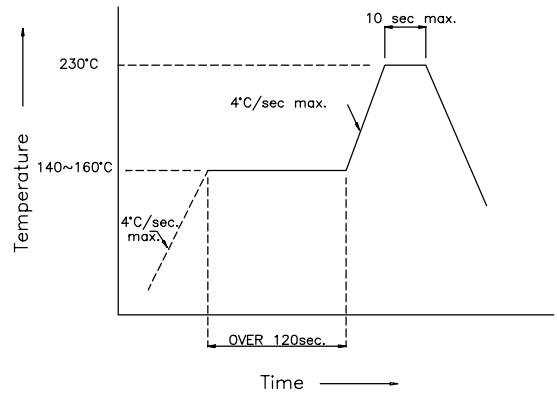
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APB3025NSGC Pure Orange / Super Bright Green

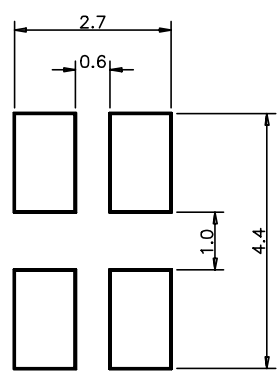


APB3025NSGC SMT Reflow Soldering Instruction



APB3025NSGC Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



APB3025NSGC Tape Specifications (Units : mm)

