

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
APBL3025NSGC-F01	PURE ORANGE (GaAsP/GaP)	WATER CLEAR	7	20	100°
	SUPER BRIGHT GREEN (GaP)		7	20	

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 TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Orange Super Bright Green	607 565		nm	IF=20mA
λ_D	Dominant Wavelength	Pure Orange Super Bright Green	610 568		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Pure Orange Super Bright Green	35 30		nm	IF=20mA
C	Capacitance	Pure Orange Super Bright Green	15 15		pF	VF=0V;f=1MHz
VF	Forward Voltage	Pure Orange Super Bright Green	2.05 2.2	2.5 2.5	V	IF=20mA
IR	Reverse Current	All		10	uA	VR = 5V

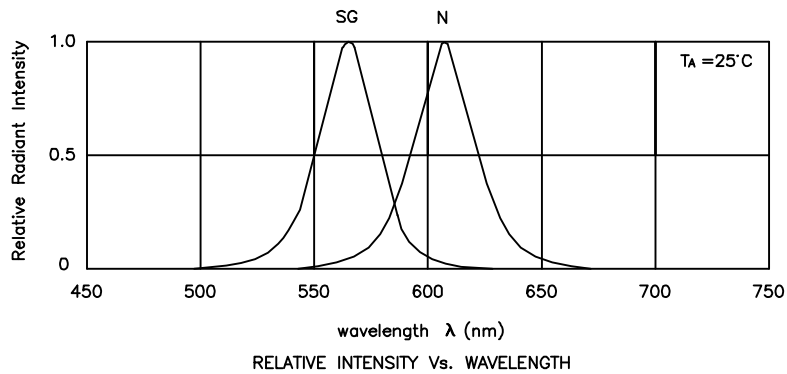
Absolute Maximum Ratings at TA=25°C

Parameter	Pure Orange	Super Bright Green	Units
Power dissipation	105	105	mW
DC Forward Current	25	25	mA
Peak Forward Current [1]	145	140	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

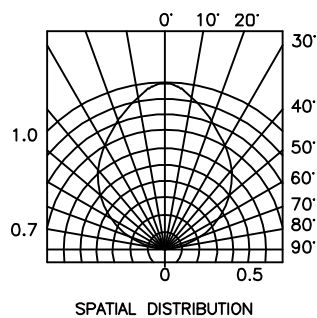
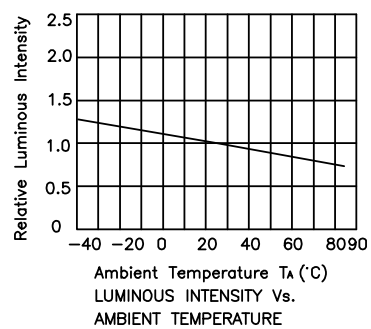
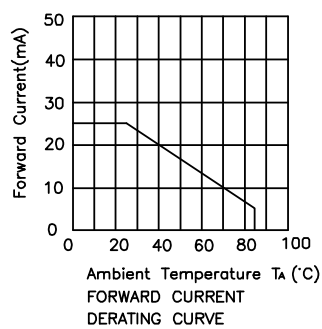
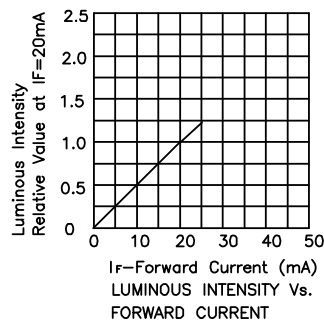
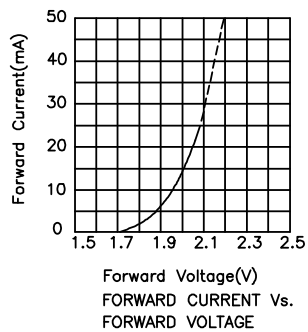
Note:

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

Kingbright

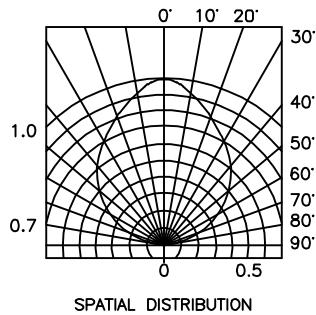
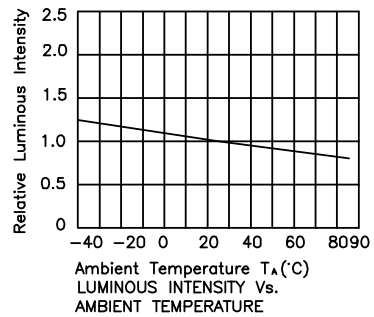
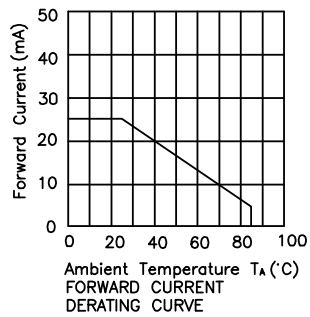
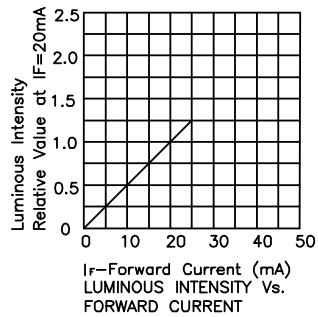
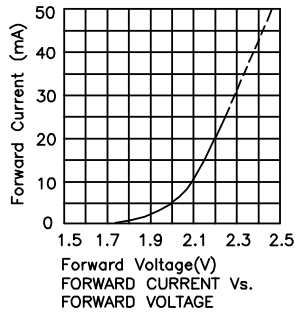


APBL3025NSGC-F01 Pure Orange



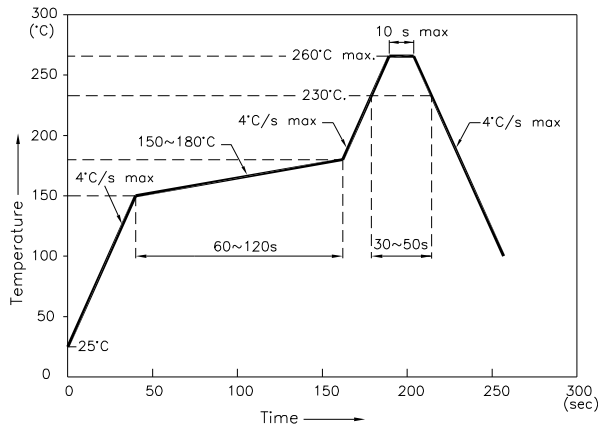
Kingbright

Super Bright Green



APBL3025NSGC-F01

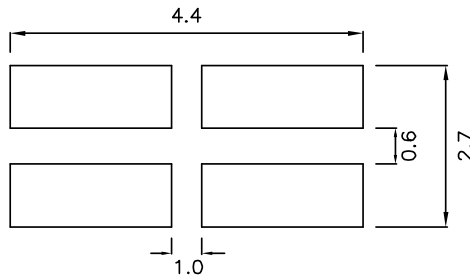
Reflow Soldering Profile For Lead-free SMT Process.



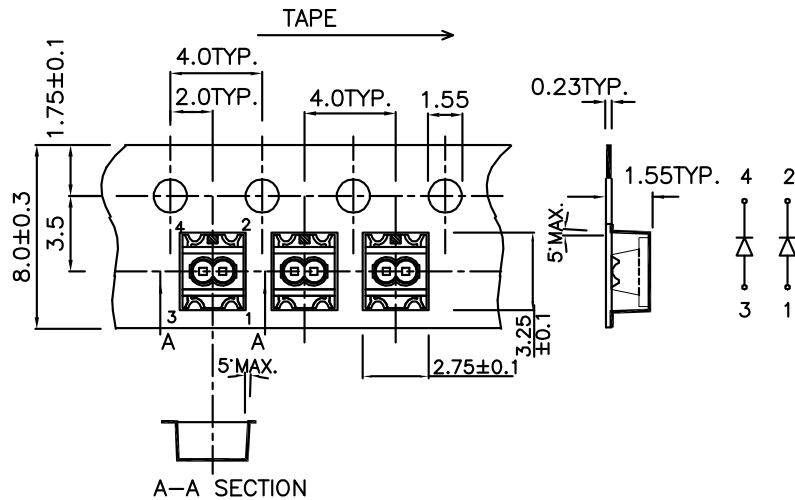
NOTES:

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

Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.