

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APBD3224SGNC	Super Bright Green (GaP)	WATER CLEAR	10	40	20°
	Pure Orange (GaAsP/GaP)		10	30	

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
λ _{peak}	Peak Wavelength	Super Bright Green Pure Orange	565 607		nm	I _F =20mA
λ _D [1]	Dominant Wavelength	Super Bright Green Pure Orange	568 610		nm	I _F =20mA
Δλ _{1/2}	Spectral Line Half-width	Super Bright Green Pure Orange	30 35		nm	I _F =20mA
C	Capacitance	Super Bright Green Pure Orange	15 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Green Pure Orange	2.2 2.05	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Green Pure Orange		10 10	μA	V _R = 5V

Notes:

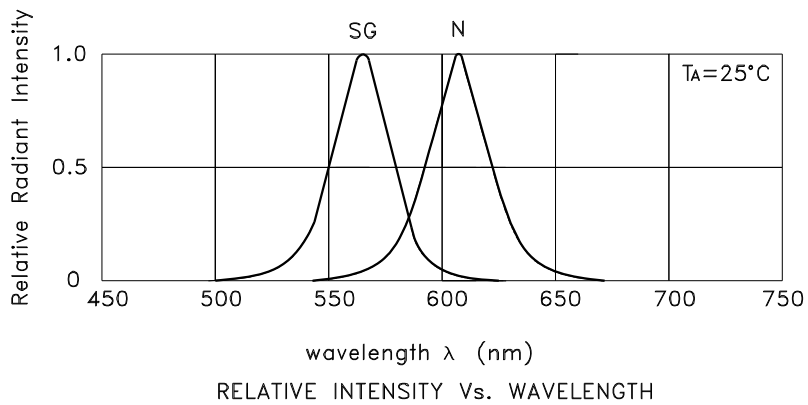
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

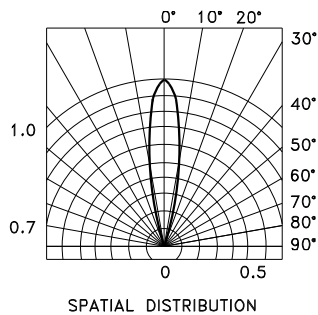
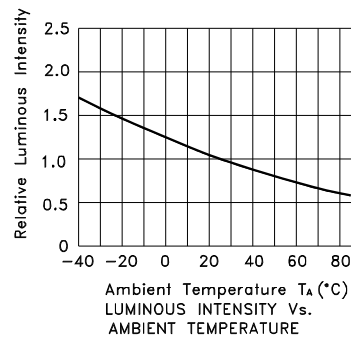
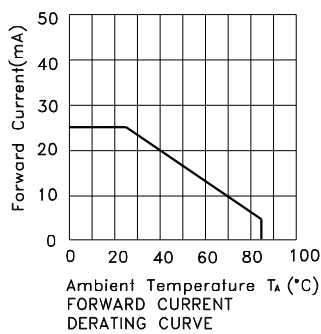
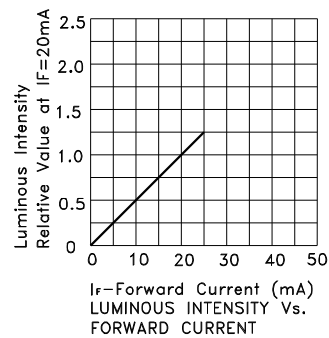
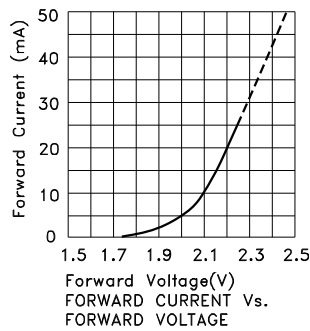
Parameter	Super Bright Green	Pure Orange	Units
Power dissipation	62.5	62.5	mW
DC Forward Current	25	25	mA
Peak Forward Current [1]	140	145	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

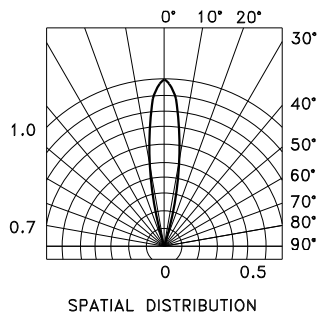
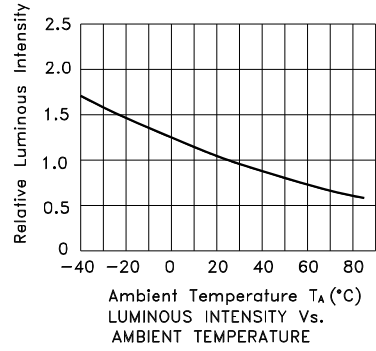
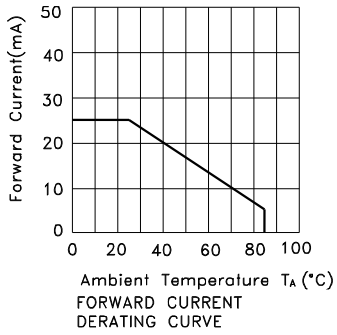
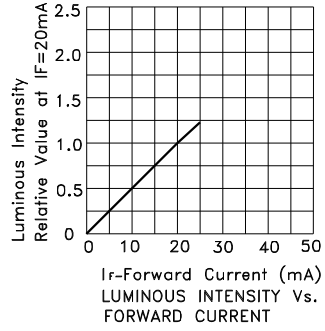
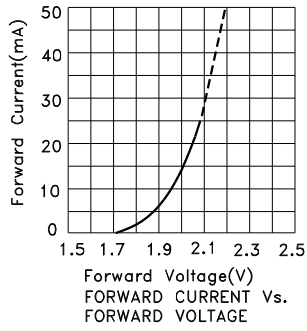
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APBD3224SGNC
Super Bright Green

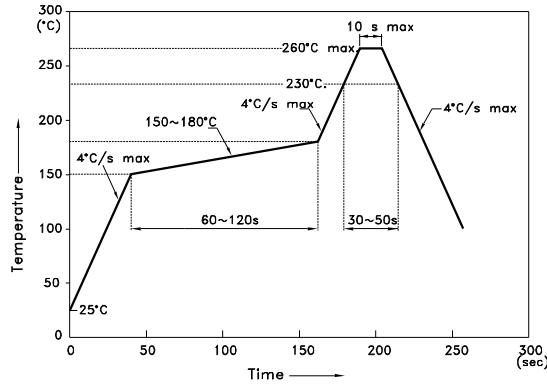


Pure Orange



APBD3224SGNC

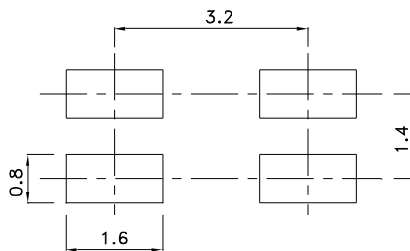
Reflow Soldering Profile For Lead-free SMT Process.



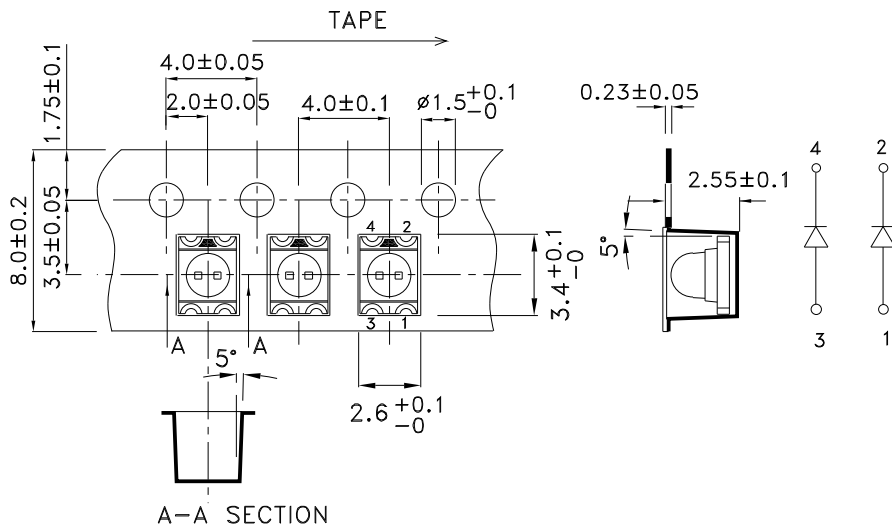
NOTES:

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; Tolerance: ± 0.1)



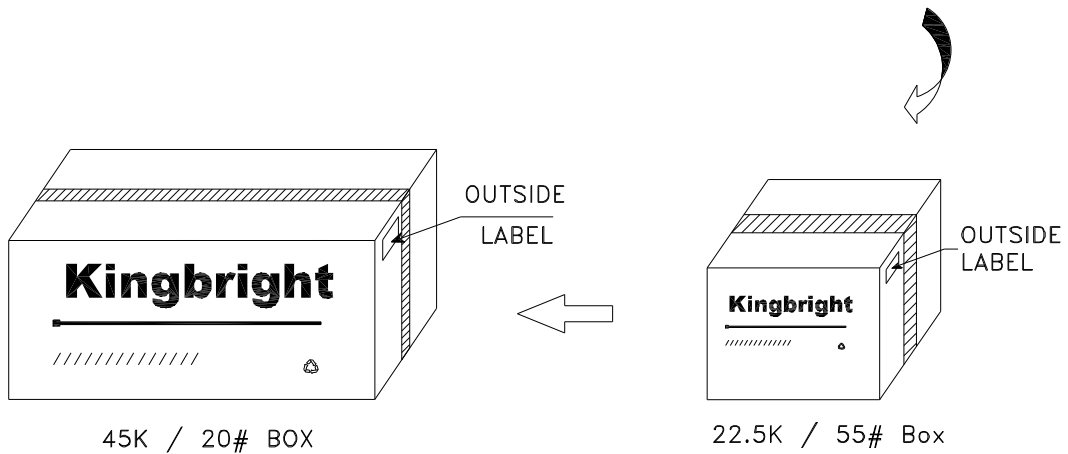
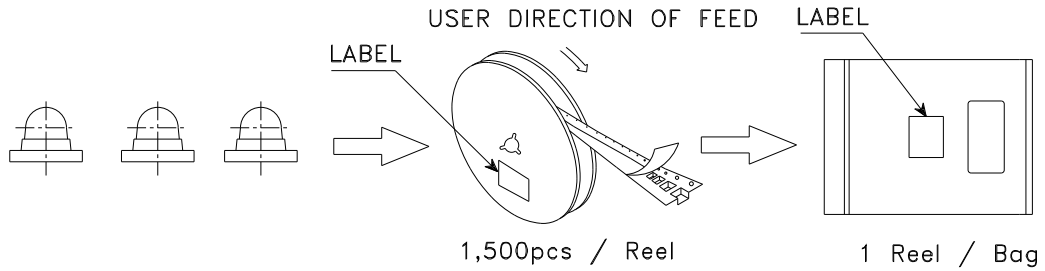
Tape Specifications (Units : mm)




Kingbright

PACKING & LABEL SPECIFICATIONS

APBD3224SGNC



<h1>Kingbright</h1>	
P/NO: APBD3224xxx	
QTY: 1,500 pcs	Q.C. Q C XX XX XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	