

Part Number: APBD3224SYKCGKC-F01

Super Bright Yellow
Green

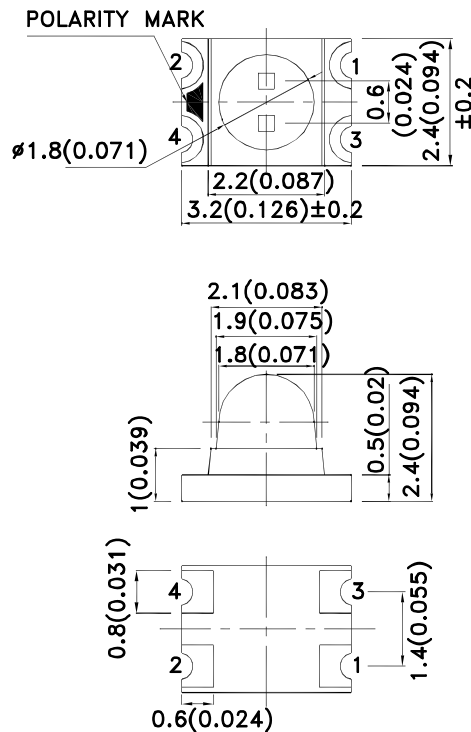
Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

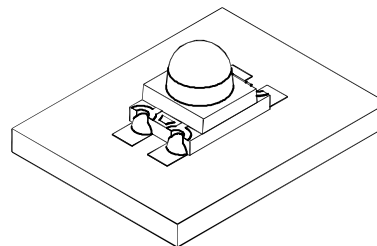
- The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.
- The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



YELLOW
2 — 1

GREEN
4 — 3



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.1(0.004") unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APBD3224SYKCGKC-F01	Super Bright Yellow (AlGaInP)	Water Clear	400	800	20°
	Green (AlGaInP)		80	280	

Notes:

1. $\theta 1 / 2$ is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.
2. Luminous intensity / luminous Flux: + / -15%.
3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Yellow Green	590 574		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Yellow Green	590 570		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Yellow Green	20 20		nm	I _F =20mA
C	Capacitance	Super Bright Yellow Green	20 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Yellow Green	2 2.1	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Yellow Green		10 10	uA	V _R = 5V

Notes:

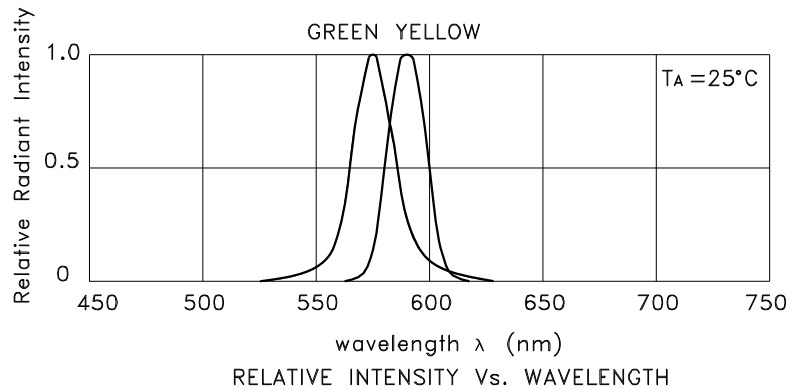
1. Wavelength: + / -1nm.
2. Forward Voltage: + / -0.1V.
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

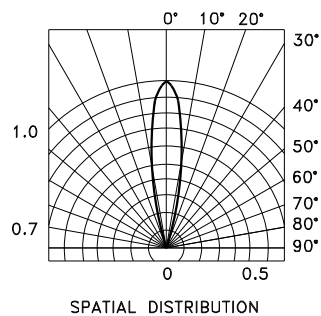
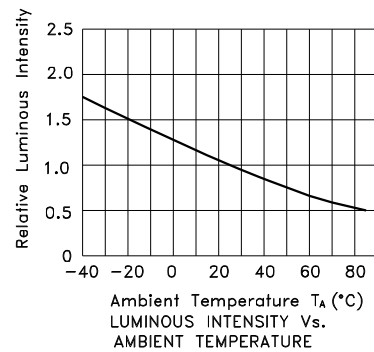
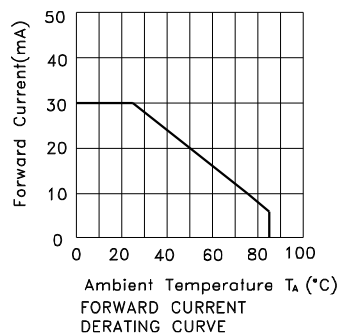
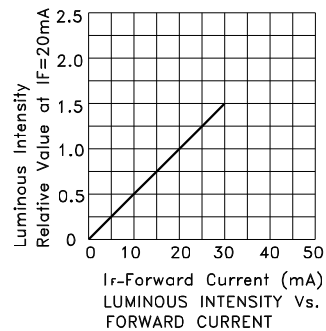
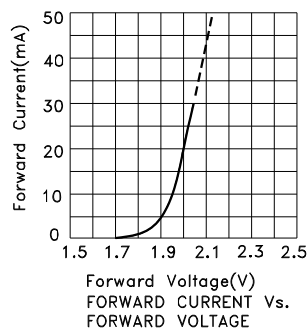
Parameter	Super Bright Yellow	Green	Units
Power dissipation	75	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	175	150	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

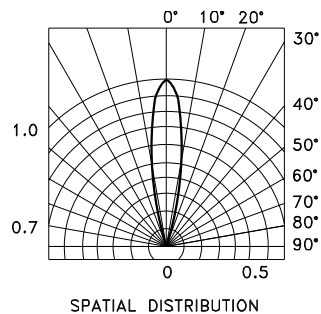
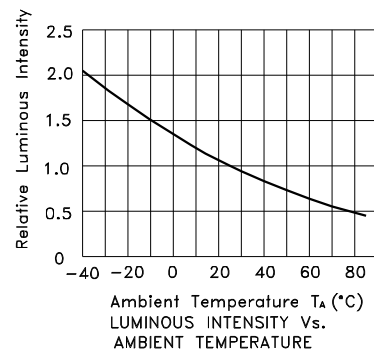
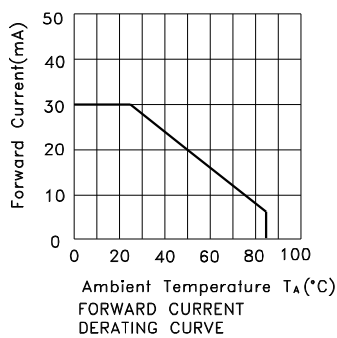
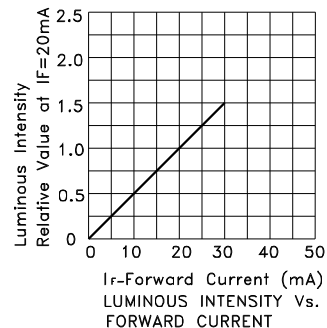
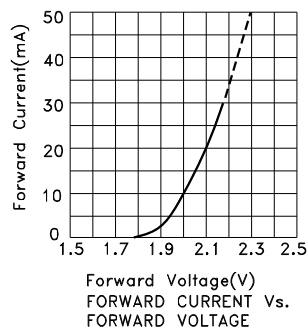
1. 1 / 10 Duty Cycle, 0.1ms Pulse Width.



APBD3224SYKCGKC-F01 Super Bright Yellow

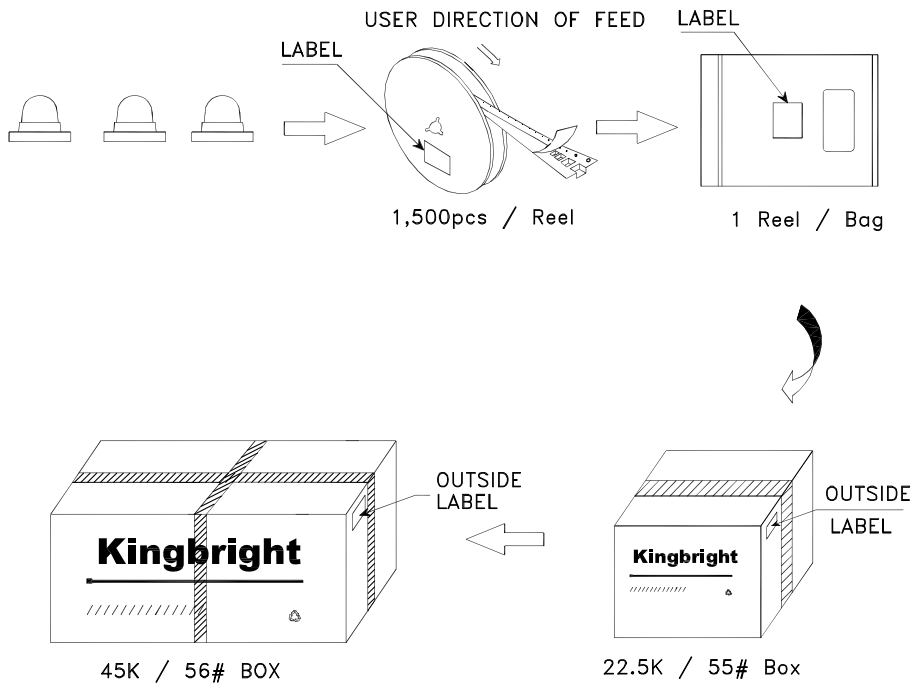


Green



PACKING & LABEL SPECIFICATIONS

APBD3224SYKCGKC-F01



Kingbright				
P/NO: APBD3224xxx				
QTY: 1,500 pcs	Q.C. <table border="1"><tr><td>Q C</td></tr><tr><td>xx-xx-xxxx</td></tr><tr><td>PASSED</td></tr></table>	Q C	xx-xx-xxxx	PASSED
Q C				
xx-xx-xxxx				
PASSED				
S/N: XXXX				
CODE: XXX				
LOT NO:				
				
RoHS Compliant				

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