

Part Number: APBL3025SRQG CPR-F01

Super Bright Red
Green

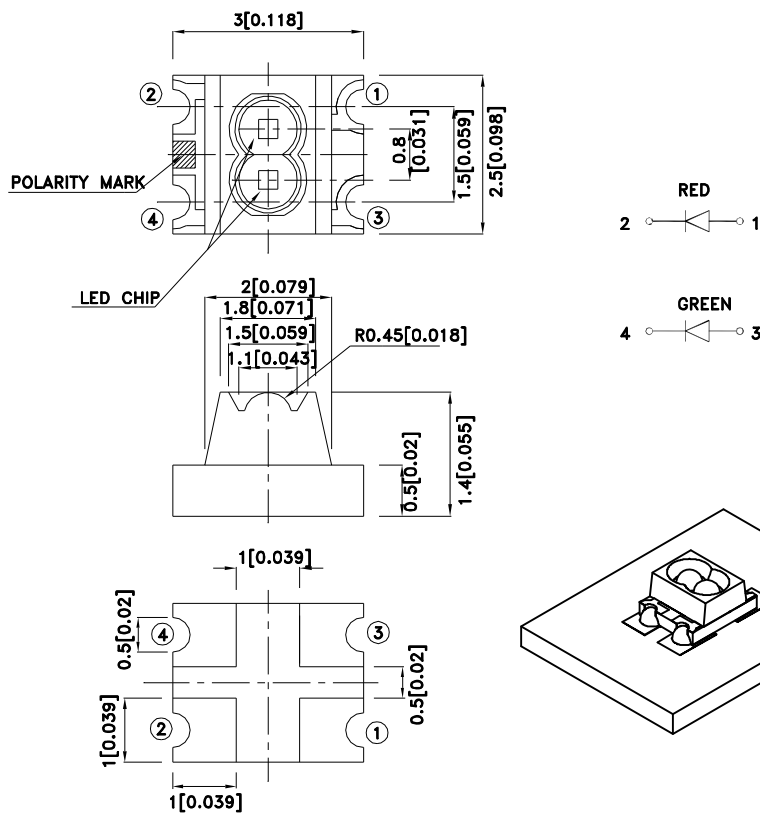
Features

- 3.0mmx2.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Inner lens type.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- RoHS compliant.

Descriptions

- The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
- The 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 ± 0.2 (0.008") 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
APBL3025SRQGCPR-F01	Super Bright Red (GaAlAs)	Water Clear	100	150	100°
			*20	*50	
	Green (GaP)		12	20	
			*12	*20	

Notes:

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

2.Luminous intensity/ luminous Flux: +/-15%.

*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
λpeak	Peak Wavelength	Super Bright Red Green	655 560		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red Green	640 565		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Green	20 30		nm	IF=20mA
C	Capacitance	Super Bright Red Green	45 45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red Green	1.85 2.15	2.5 2.5	V	IF=20mA
IR	Reverse Current	Super Bright Red Green		10 10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

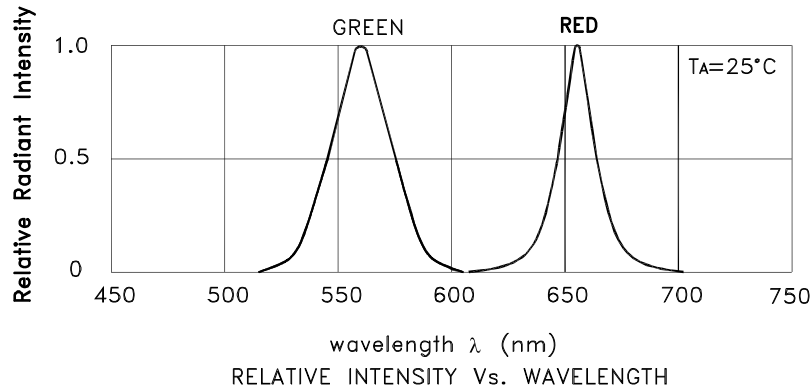
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

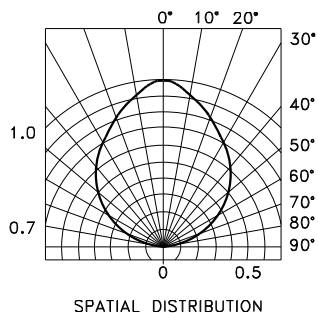
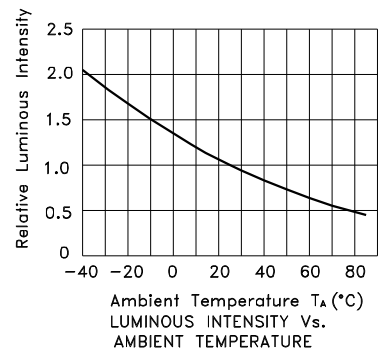
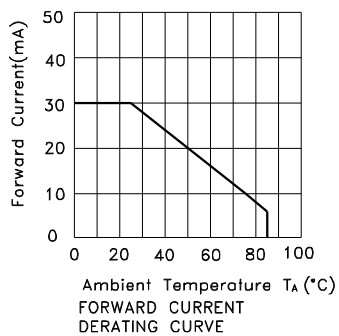
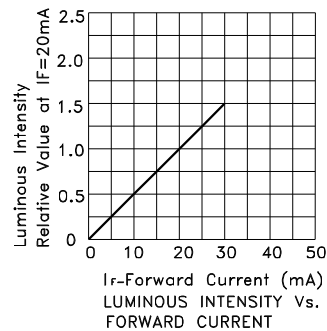
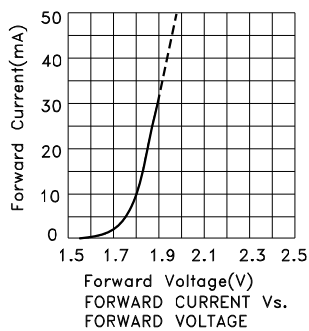
Parameter	Super Bright Red	Green	Units
Power dissipation	75	62.5	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	155	130	mA
Reverse Voltage	5		V
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note:

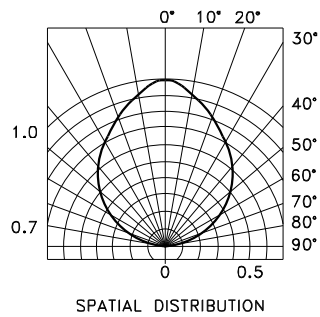
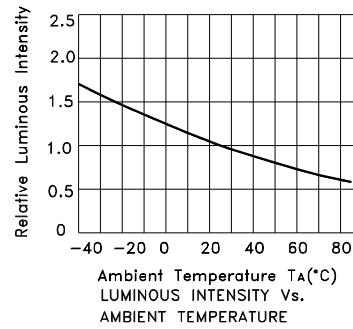
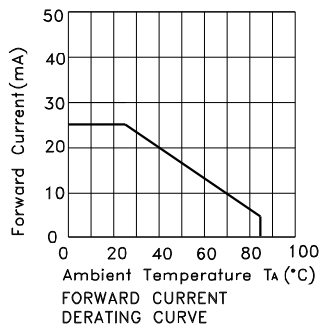
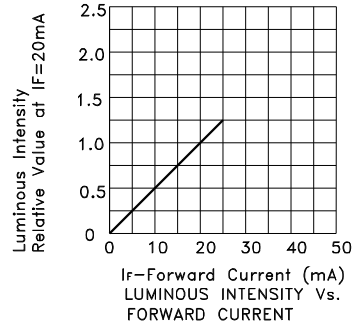
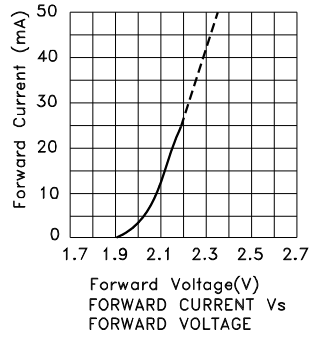
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APBL3025SRQGCP-R-F01 Super Bright Red

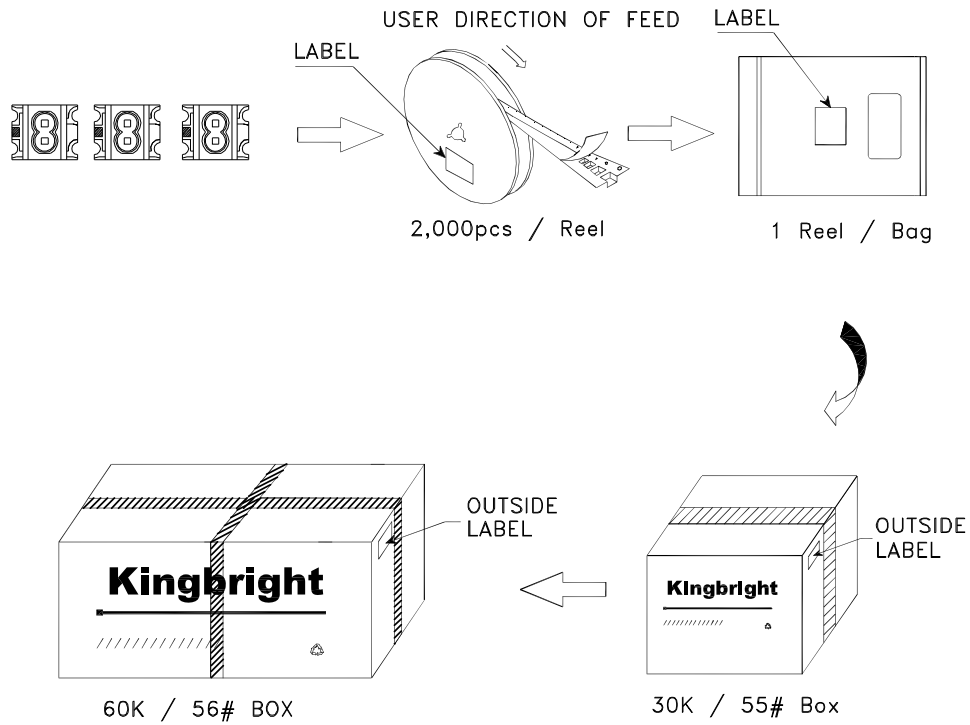



Green



PACKING & LABEL SPECIFICATIONS

APBL3025SRQG CPR-F01



Kingbright	
P/NO: APBL3025xxx	
QTY: 2,000 pcs	Q.C. Q C xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	

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