

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	201/2
AA3528ASGC	Super Bright Green (GaP)	WATER CLEAR	10	25	120°

Notes:

1. $\theta 1/2$ 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	565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Green	568		nm	I _F =20mA
$\Delta\lambda 1/2$	Spectral Line Half-width	Super Bright Green	30		nm	I _F =20mA
C	Capacitance	Super Bright Green	15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Green		10	uA	V _R =5V

Notes:

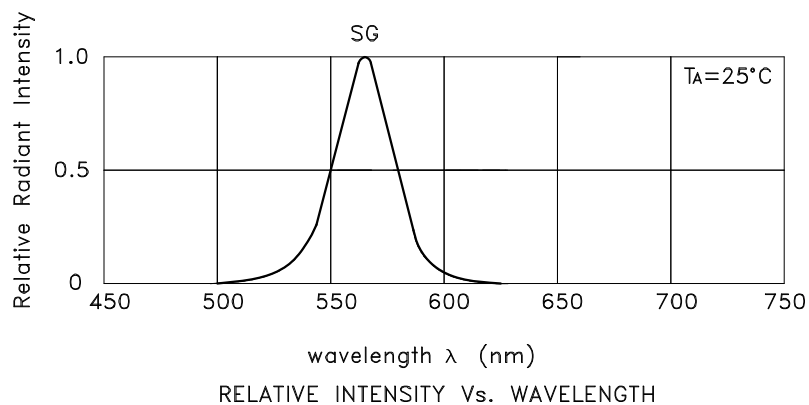
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Green	Units
Power dissipation	62.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	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.



Super Bright Green

AA3528ASGC

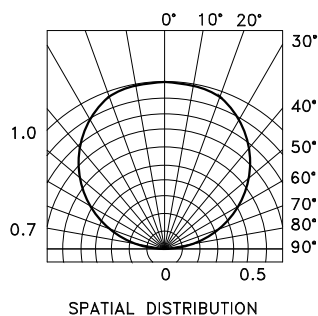
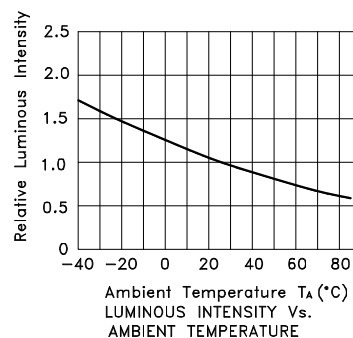
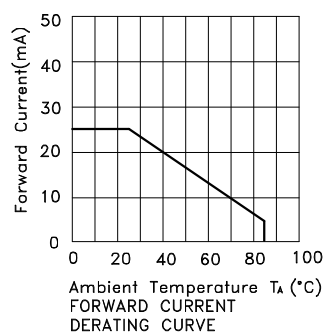
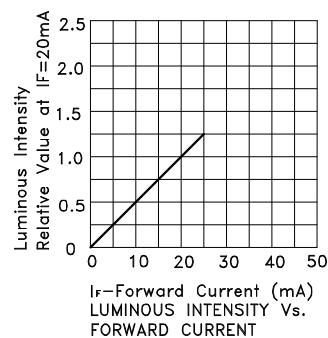
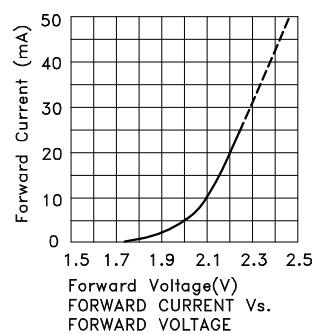


Figure 1 is a graph showing the temperature profile of the sample during the DSC measurement. The y-axis represents Temperature (°C) from 0 to 300, and the x-axis represents Time (sec) from 0 to 300. The profile starts at 25°C, rises at 4°C/s to 150~180°C (60~120s), then rises at 4°C/s to 260°C max (30~50s), holds at 260°C max for 10s, and finally cools at 4°C/s.

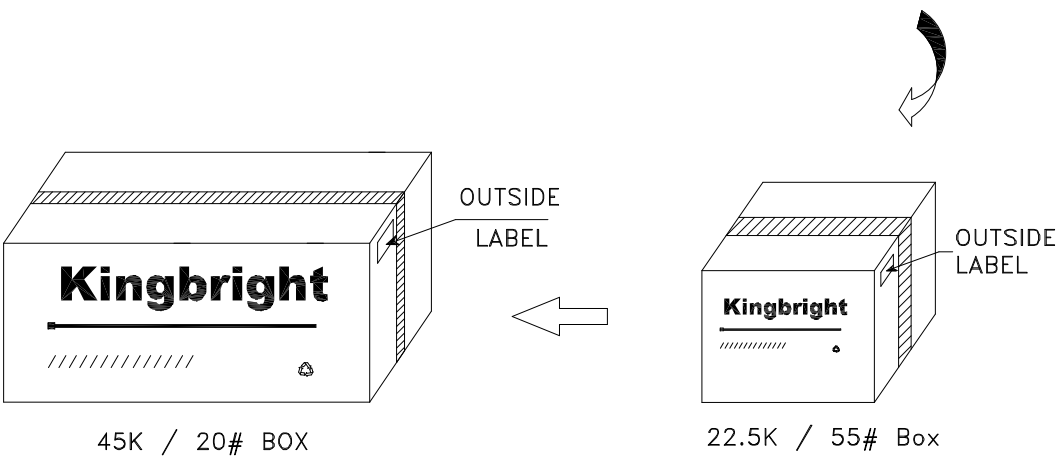
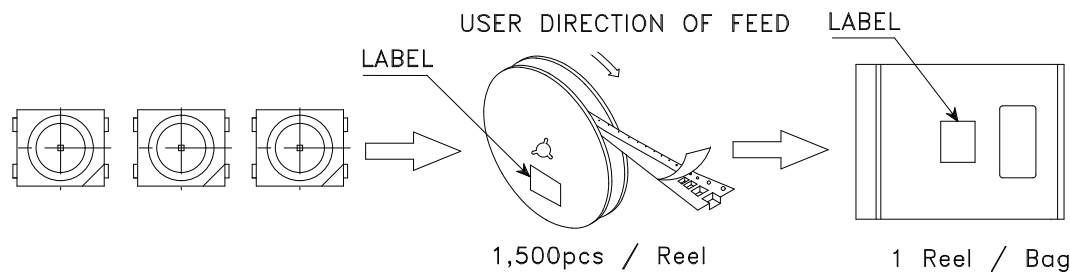
NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$. 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.

Technical drawing of a tape with three square components. The drawing includes a top view with dimensions: total width 12 ± 0.3 , total height 4.0 ± 0.1 , component width 2 ± 0.05 , component height 3.1 ± 0.15 , and center-to-center spacing 4.0 ± 0.1 . A detail view A-A shows a cross-section of the component with dimensions: top thickness 0.25 ± 0.1 , total height 2.15 ± 0.1 , and a 5°MAX. angle. A dimension line labeled "TAPE" with an arrow points to the right.

PACKING & LABEL SPECIFICATIONS

AA3528ASGC



Kingbright	
P/NO: AA3528Axxx	
QTY: 1,500 pcs	Q.C. Q C xx-xx-xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:  xxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	