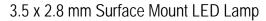


AA3528LSGC





DESCRIPTION

• The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting

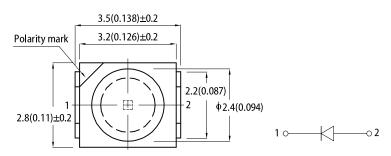
FEATURES

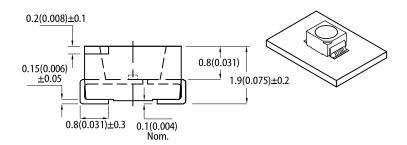
- Single color
- · Suitable for all SMD assembly and solder process
- · Available on tape and reel
- · Ideal for backlighting
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- · RoHS compliant

APPLICATIONS

- Backlight
- · Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- · Healthcare applications

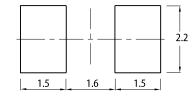
PACKAGE DIMENSIONS





RECOMMENDED SOLDERING PATTERN

(units: mm; tolerance: \pm 0.1)



- 1. All dimensions are in millimeters (inches).
- Tolerance is ±0.25(0.01") unless otherwise noted.
 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 Number	Emitting Color (Material)	Lens Type	Iv (mcd) @ 2mA [2]		Viewing Angle [1]
			Min.	Тур.	201/2
AA3528LSGC	Super Bright Green (GaP)	Water Clear	0.35	1.2	120°

Notes.

1. 01/2 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 CIE127-2007 standards.





ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter		Emitting Color	Тур.	Max.	Unit
Wavelength at Peak Emission I _F = 2mA	λ_{peak}	Super Bright Green	565	-	nm
Dominant Wavelength I _F = 2mA	λ _{dom} ^[1]	Super Bright Green	568	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 2mA	Δλ	Super Bright Green	30	-	nm
Capacitance	С	Super Bright Green	15	-	pF
Forward Voltage I _F = 2mA	V _F ^[2]	Super Bright Green	1.9	2.25	V
Reverse Current (V _R = 5V)	I _R	Super Bright Green	-	10	μА

Notes:

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	62.5	mW
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	110	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
DC Forward Current	I _F	25	mA
Peak Forward Current	I _{FM} ^[1]	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	V

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



Notes:

1. The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd:±1nm.)

2. Forward voltage:±0.1V.

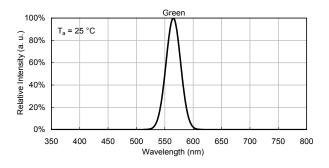
3. Wavelength value is traceable to CIE127-2007 standards.

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

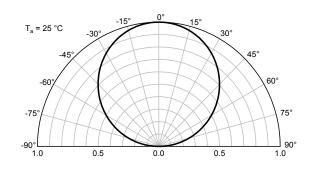


TECHNICAL DATA

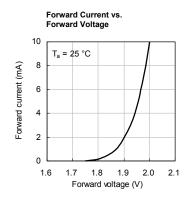
RELATIVE INTENSITY vs. WAVELENGTH

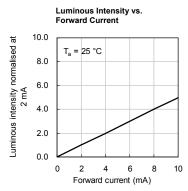


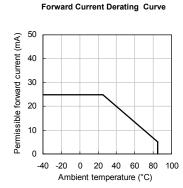
SPATIAL DISTRIBUTION

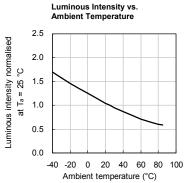


SUPER BRIGHT GREEN

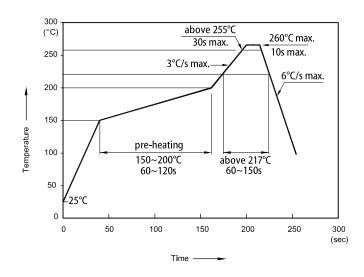








REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



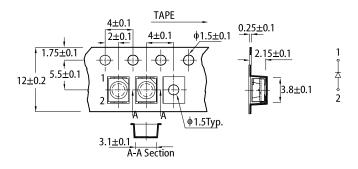
Notes.

- 1. Don't cause stress to the LEDs while it is exposed to high temperature.

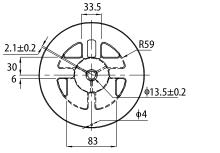
 2. The maximum number of reflow soldering passes is 2 times.

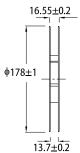
 3. Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product.

TAPE SPECIFICATIONS (units: mm)



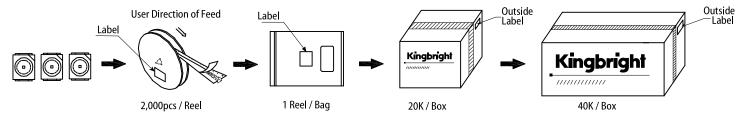
REEL DIMENSION (units: mm)







PACKING & LABEL SPECIFICATIONS





- The information included in this document reflects representative usage scenarios and is intended for technical reference only.

 The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.

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