

Part Number: APA2106MGC

Mega Green

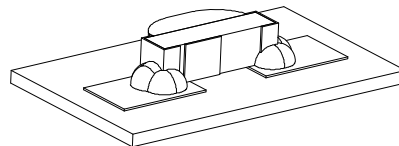
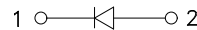
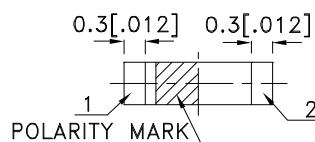
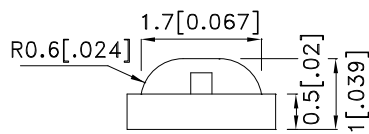
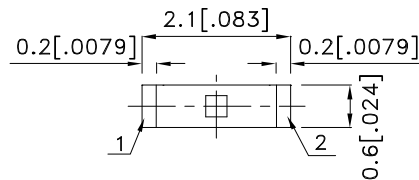
Features

- 2.1mmX0.6mm right angle SMT LED, 1.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Mega Green source color devices are made with Al-GaN/P on GaAs substrate Light Emitting Diode.

Package Dimensions



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 |
| APA2106MGC | Mega Green (AlGaInP) | Water Clear | 50 | 80 | 120° |

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%.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|--------|--------------------------|------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Mega Green | 574 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Mega Green | 570 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Mega Green | 26 | | nm | IF=20mA |
| C | Capacitance | Mega Green | 20 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Mega Green | 2.1 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Mega Green | | 10 | uA | VR=5V |

Notes:

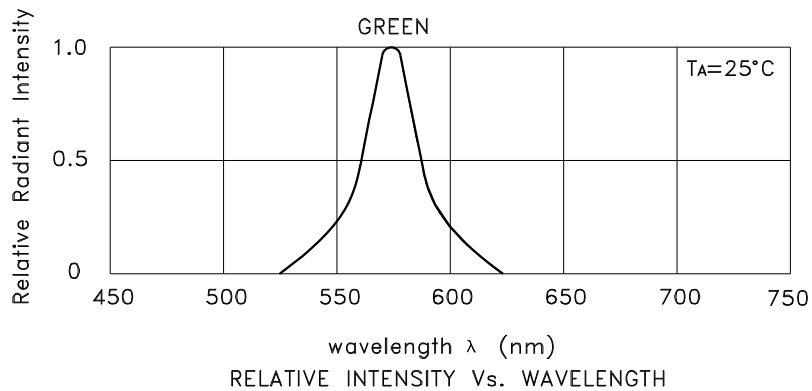
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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

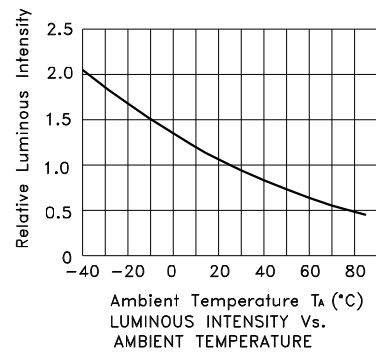
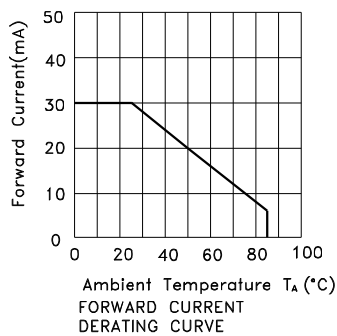
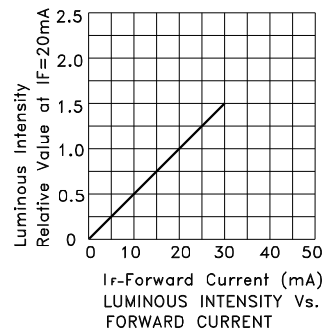
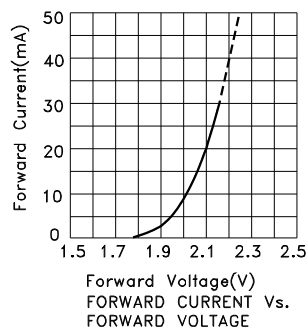
Note:

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



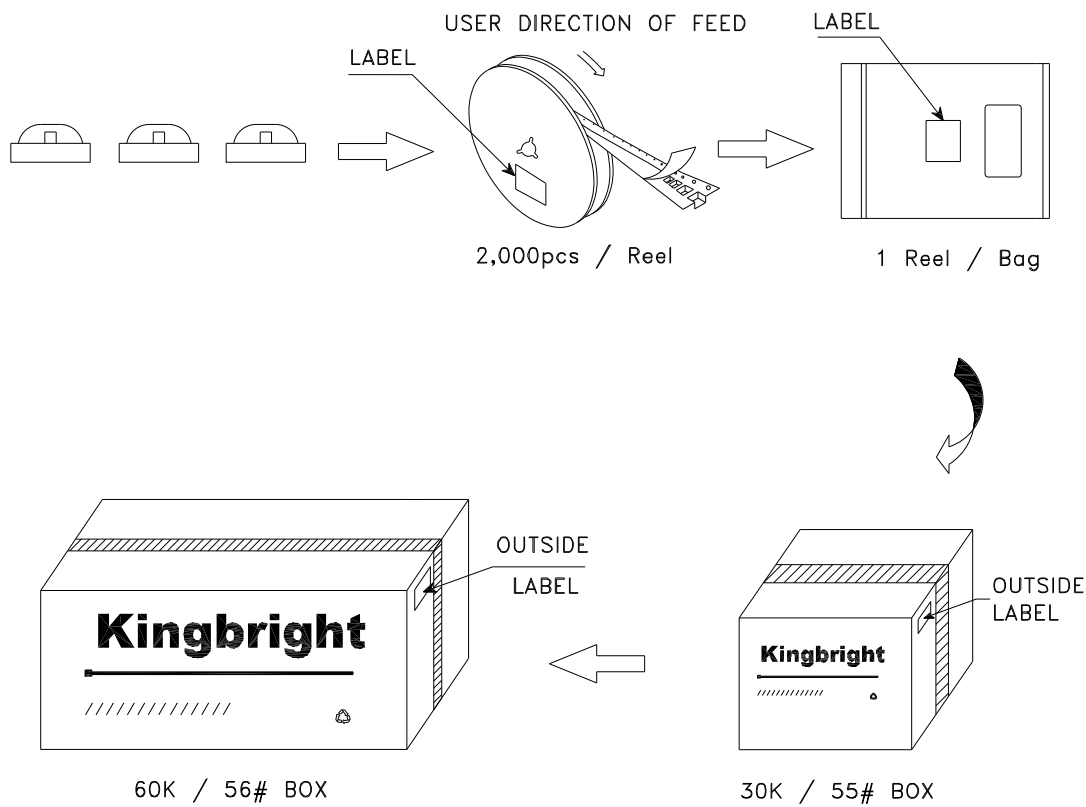
Mega Green


APA2106MGC



PACKING & LABEL SPECIFICATIONS

APA2106MGC



| | | |
|--|------|--|
| Kingbright | | |
| P/N0: APA2106xxx | | |
| QTY: 2,000 pcs | Q.C. | <div>Q C xx xx xxxx PASSED</div> |
| S/N: XXXX | | |
| CODE: XXX | | |
| LOT NO: | | |
|  xxxxxxxxxxxxxxxxxxxxxxxxxxxx | | |
| RoHS Compliant | | |

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