

APK3020VGC

GREEN

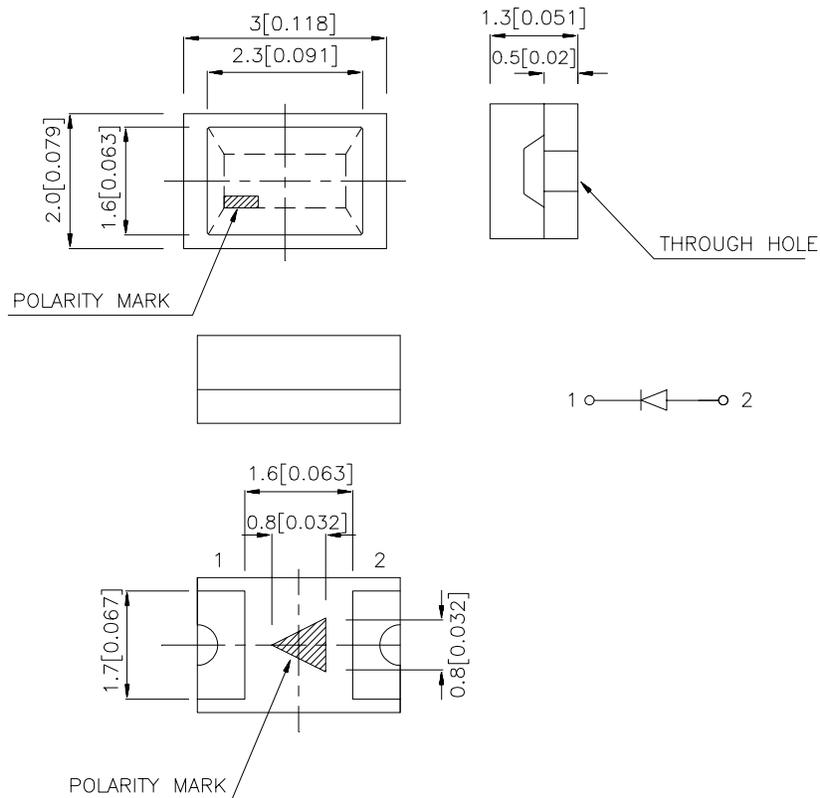
Features

- 3.0mmX2.0mm SMT LED, 1.3mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE:2000PCS/REEL

Description

The Green source color devices are made with InGaN on SiC Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.2 (0.0079") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20 mA | | Viewing Angle |
|------------|---------------|-------------|---------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| APK3020VGC | GREEN (InGaN) | WATER CLEAR | 70 | 150 | 120° |

Note:

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

Electrical / Optical Characteristics at T_A=25°C

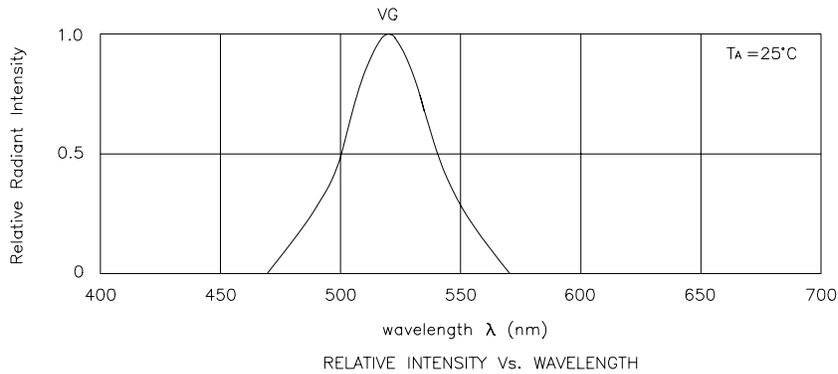
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|--------|------|------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Green | 520 | | nm | I _F =20mA |
| λ _D | Dominant Wavelength | Green | 525 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Green | 38 | | nm | I _F =20mA |
| C | Capacitance | Green | 45 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | Green | 4.0 | 4.5 | V | I _F =20mA |
| I _R | Reverse Current | Green | | 10 | μA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Green | Units |
|-------------------------------|----------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 150 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

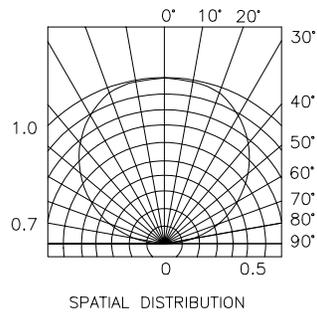
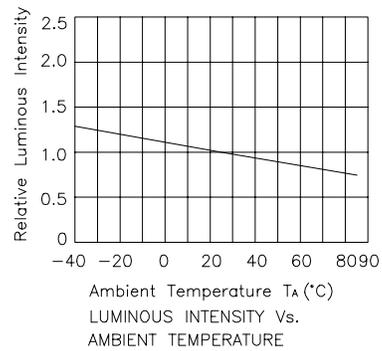
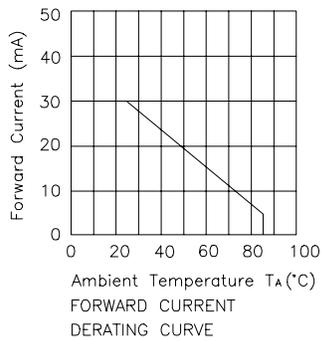
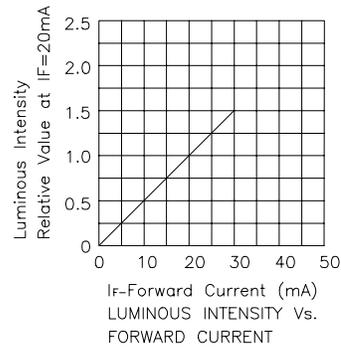
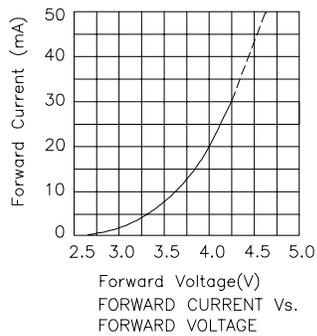
Note:

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



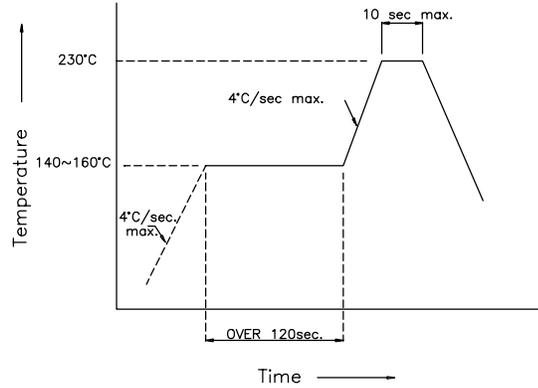
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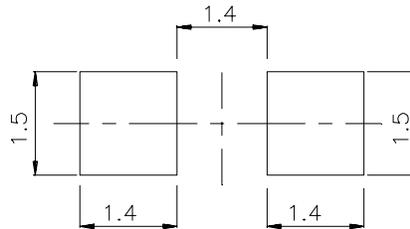


APK3020VGC SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

