

Part Number: APG1608SYKC/T

Super Bright Yellow

Features

- 1.6mmX0.8mm SMT LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

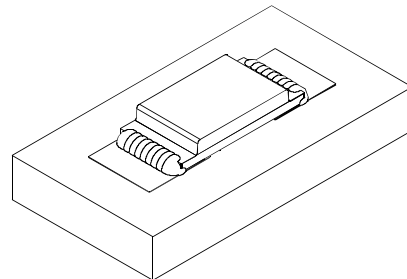
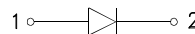
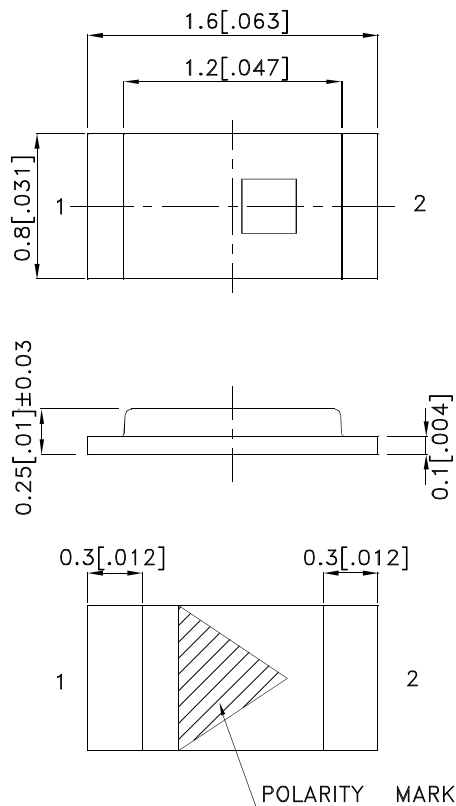
Description

The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Applications

- 1.Mobile phone Keypad indicator and backlight.
- 2.Flat backlight for LCD, switch and symbol.
- 3.Toys.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ 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 |
| APG1608SYKC/T | Super Bright Yellow (AlGaInP) | Water Clear | 55 | 120 | 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%.
3. 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 Yellow | 590 | | nm | IF=20mA |
| λD [1] | Dominant Wavelength | Super Bright Yellow | 590 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Yellow | 15 | | nm | IF=20mA |
| C | Capacitance | Super Bright Yellow | 25 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Super Bright Yellow | 2.05 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Super Bright Yellow | | 10 | uA | VR=5V |

Notes:

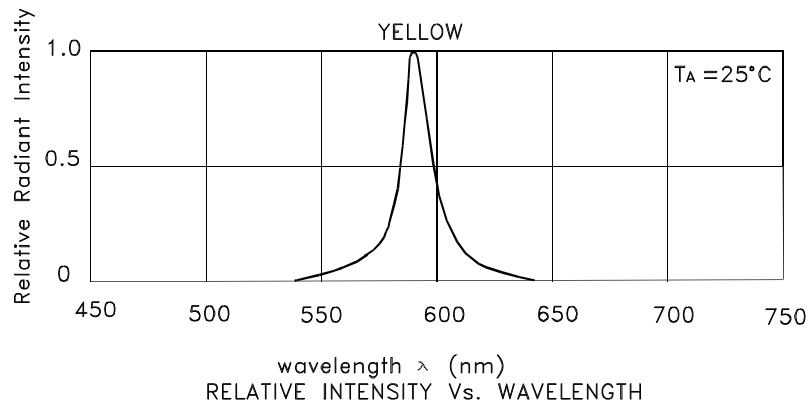
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

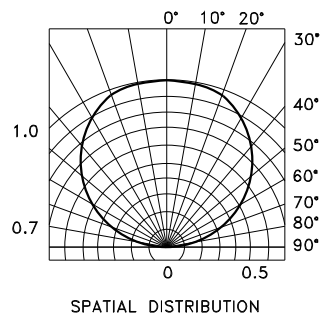
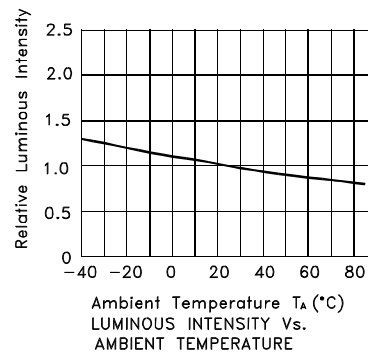
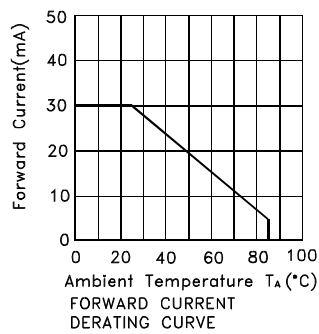
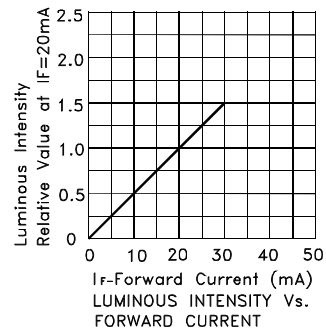
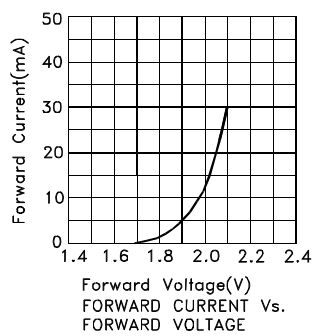
| Parameter | Super Bright Yellow | Units |
|--------------------------|---------------------|-------|
| Power dissipation | 75 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 150 | mA |
| Reverse Voltage | 5 | V |
| Operating Temperature | -40°C To +85°C | |
| Storage Temperature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

Note:

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

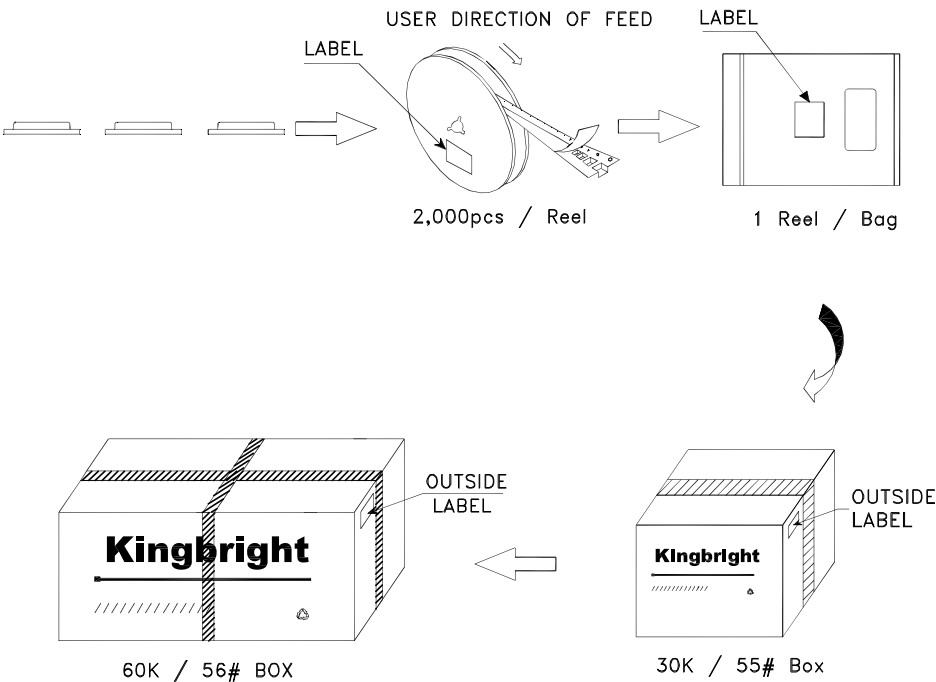



Super Bright Yellow APG1608SYKC/T



PACKING & LABEL SPECIFICATIONS

APG1608SYKC/T



| | |
|--|---|
| Kingbright | |
| P/NO: APG1608xxx | |
| QTY: 2,000 pcs | Q.C. <div>Q C XX XX XXXX PASSED</div> |
| S/N: XXXX | |
| CODE: XXX | |
| LOT NO: | |
|  | |
| RoHS Compliant | |

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