

PRELIMINARY SPEC

Part Number: APTD1608SYCK

Super Bright Yellow

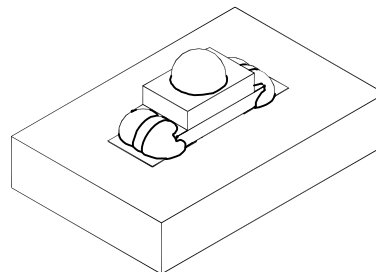
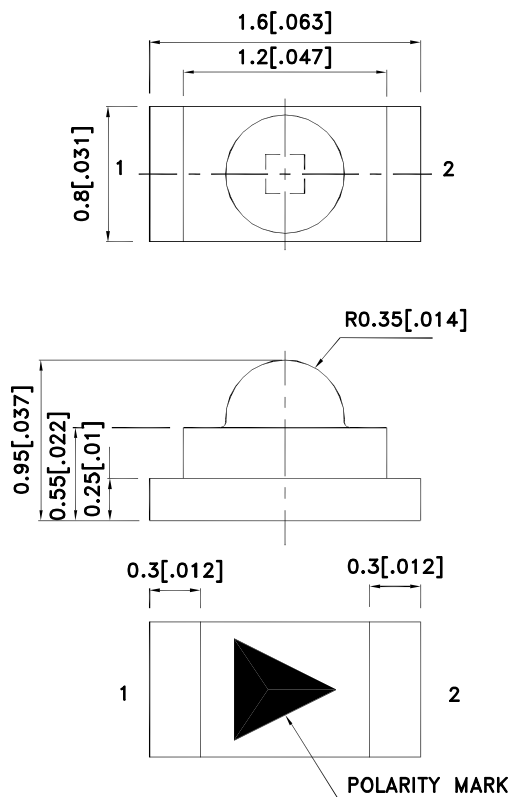
Features

- 1.6mmX0.8mm SMT LED, 0.95mm 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 Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.15(0.006")$ unless otherwise noted.
3. Specifications are subject to change without 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 |
| APTD1608SYCK | Super Bright Yellow (AlGaInP) | WATER CLEAR | 280 | 480 | 60° |

Notes:

1. θ1/2 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 |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| 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 | 20 | | nm | IF=20mA |
| C | Capacitance | Super Bright Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Super Bright Yellow | 2 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Super Bright Yellow | | 10 | uA | VR=5V |

Notes:

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

Absolute Maximum Ratings at TA=25°C

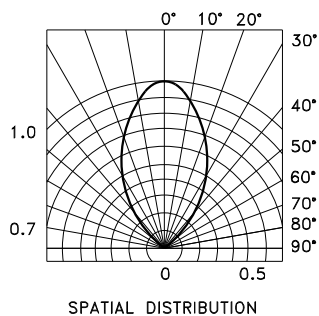
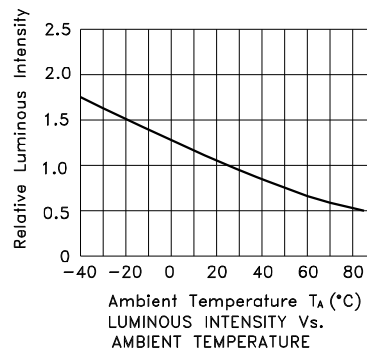
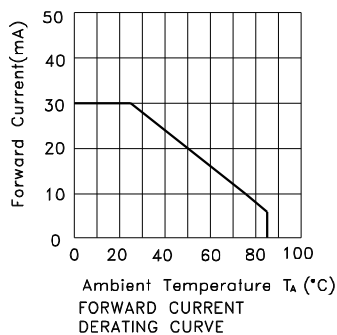
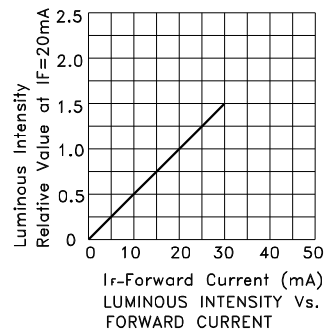
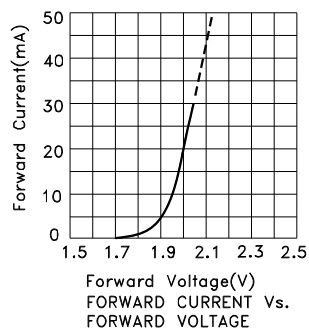
| Parameter | Super Bright Yellow | Units |
|--------------------------|---------------------|-------|
| Power dissipation | 75 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 175 | mA |
| Reverse Voltage | 5 | V |
| Operating Temperature | -40°C To +85°C | |
| Storage Temperature | -40°C To +85°C | |

Note:

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

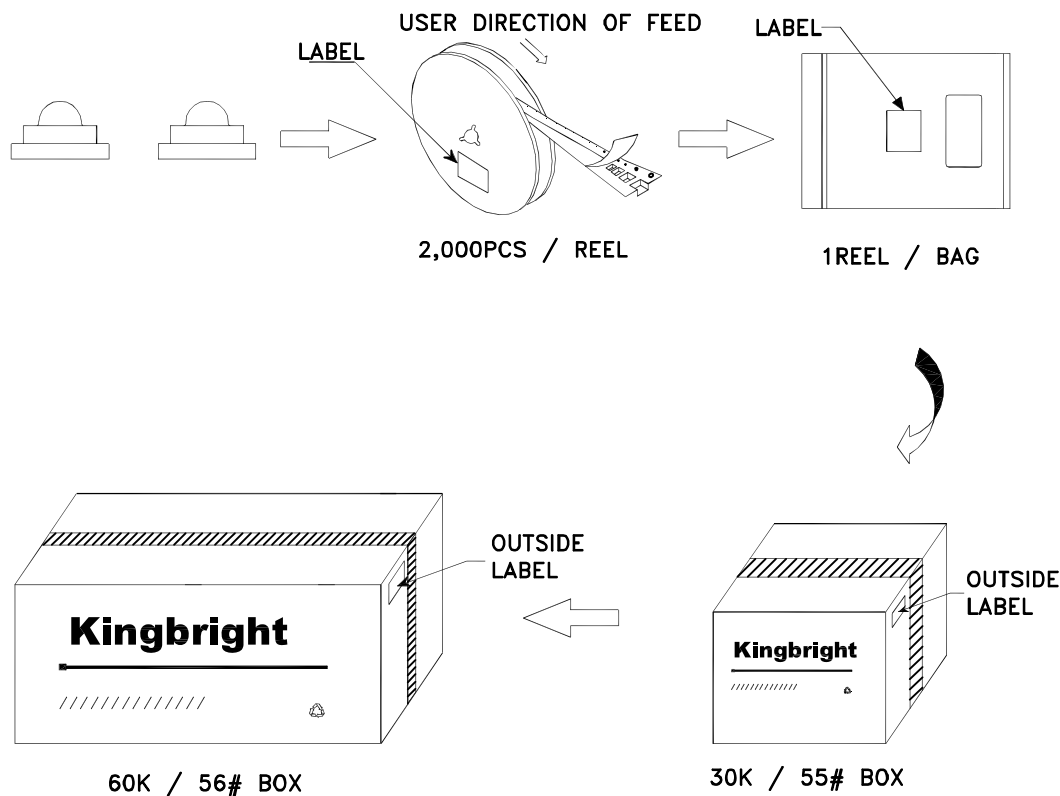



Super Bright Yellow APTD1608SYCK



PACKING & LABEL SPECIFICATIONS

APTD1608SYCK



| | | |
|--|------|------------|
| Kingbright | | |
| P/NO: APTD1608xxx | | |
| QTY: 2,000 pcs | Q.C. | Q C |
| S/N: XXXX | | XX XX XXXX |
| CODE: XXX | | PASSED |
| LOT NO: | | |
|  | | |
| XXXXXXXXXXXXXXXXXXXX | | |
| RoHS Compliant | | |