

KP-2012SYCK

SUPER BRIGHT YELLOW

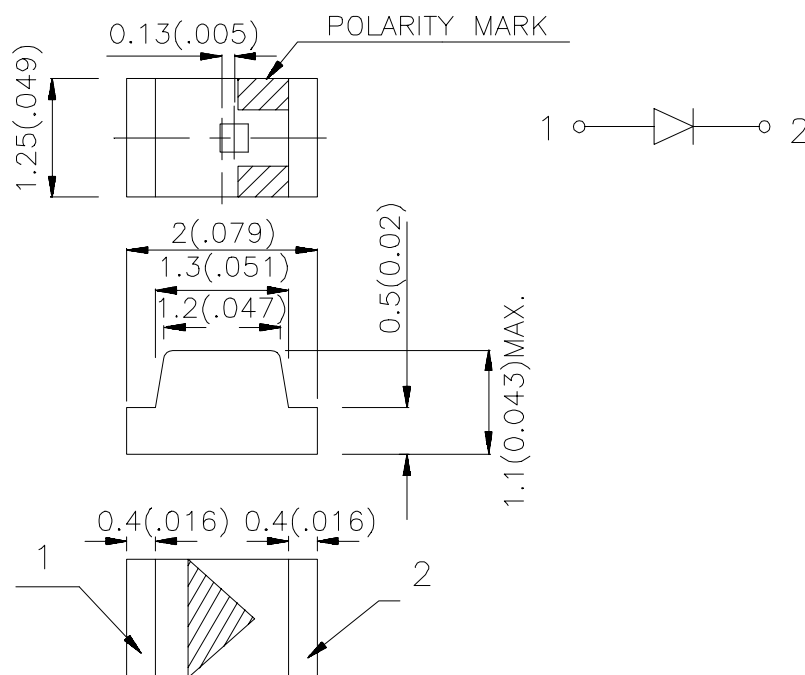
Features

- 2.0mmx1.25mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.

Description

The Super Bright Yellow source color devices are made with DH InGaAlP 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. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20 mA | | Viewing Angle |
|-------------|---------------------------------|-------------|---------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| KP-2012SYCK | SUPER BRIGHT YELLOW (InGaAlP) | WATER CLEAR | 18 | 50 | 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

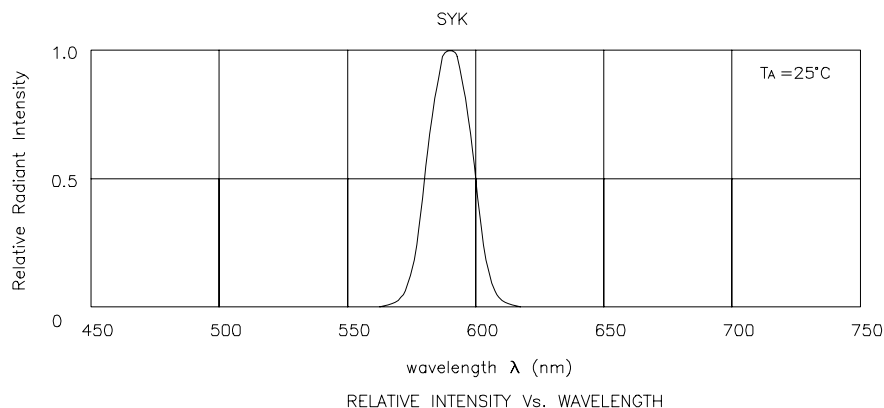
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|--------------------------|---------------------|------|------|-------|---------------------------|
| λ _{peak} | Peak Wavelength | Super Bright Yellow | 590 | | nm | I _F =20mA |
| λ _D | Dominant Wavelength | Super Bright Yellow | 590 | | nm | I _F =20mA |
| Δλ _{1/2} | Spectral Line Half-width | Super Bright Yellow | 20 | | nm | I _F =20mA |
| C | Capacitance | Super Bright Yellow | 20 | | pF | V _F =0V;f=1MHz |
| V _F | Forward Voltage | Super Bright Yellow | 2.0 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Super Bright Yellow | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

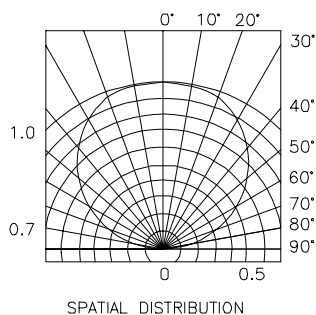
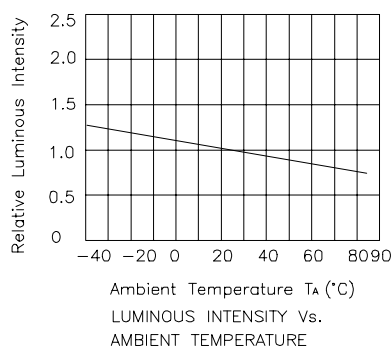
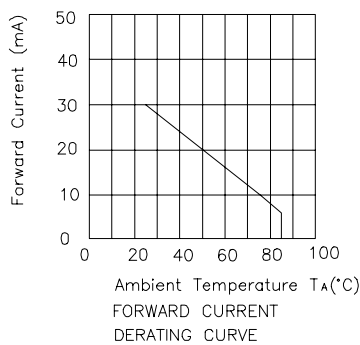
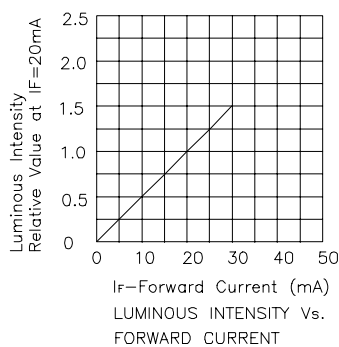
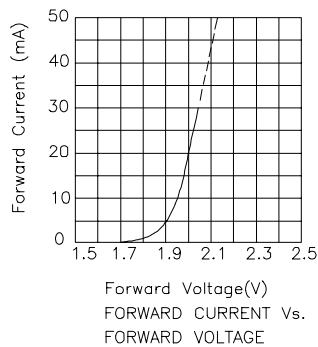
| Parameter | Super Bright Yellow | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 125 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 175 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

Note:

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



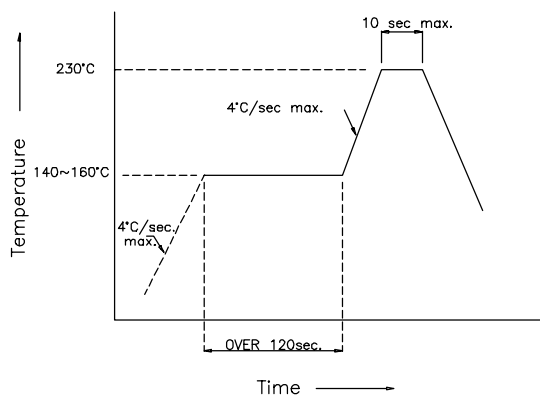
Super Bright Yellow KP-2012SYCK



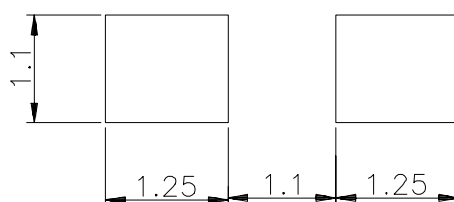
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SMT Reflow Soldering Instructions

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)

