

2.0X1.25mm SMD CHIP LED LAMP

APTK2012SEC SUPER BRIGHT ORANGE

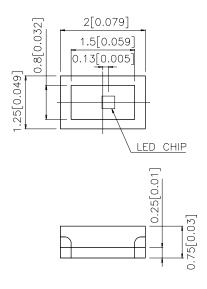
Features

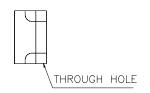
- •2.0mmX1.25mm SMT LED, 0.75mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS/REEL.

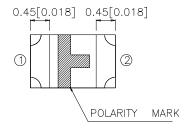
Description

The Super Bright Orange source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

SPEC NO: DSAD1047 APPROVED: J. Lu

REV NO: V.1 CHECKED : Allen Liu DATE:MAR/23/2003 DRAWN: D.L. HUANG **PAGE: 1 OF 4**



Selection Guide

| Part No. | Dice | Dice Lens Type | | lv (mcd) @ 20 mA | |
|-------------|-------------------------------|----------------|------|----------------------------|-------|
| | | 20110 1,770 | Min. | Тур. | 201/2 |
| APTK2012SEC | SUPER BRIGHT ORANGE (InGaAIP) | WATER CLEAR | 110 | 280 | 100° |

Note:

Electrical / Optical Characteristics at T_A=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|---------------------------|
| λpeak | Peak Wavelength | Super Bright Orange | 610 | | nm | I=20mA |
| λD | Dominate Wavelength | Super Bright Orange | 601 | | nm | I=20mA |
| Δλ1/2 | Spectral Line Half-width | Super Bright Orange | 29 | | nm | I=20mA |
| С | Capacitance | Super Bright Orange | 30 | | pF | V _F =0V;f=1MHz |
| VF | Forward Voltage | Super Bright Orange | 2.0 | 2.5 | V | I=20mA |
| lr | Reverse Current | Super Bright Orange | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Super Bright Orange | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 75 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 195 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |

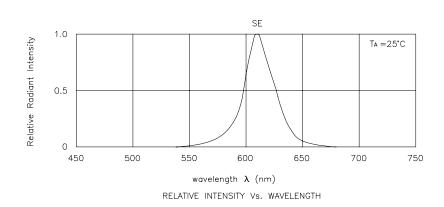
Note

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

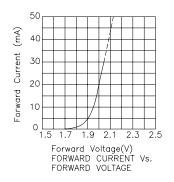
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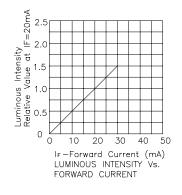
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

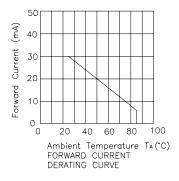


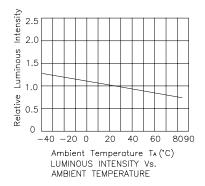


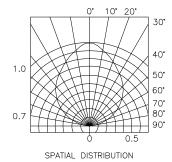
Super Bright Orange APTK2012SEC









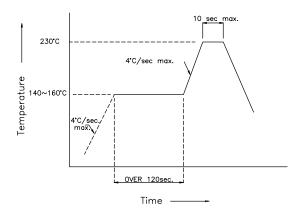


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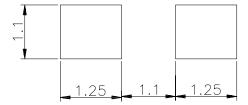
Kingbright

APTK2012SEC SMT Reflow Soldering Instructions

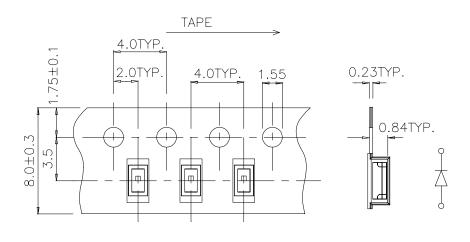
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units:mm)



Tape Specifications (Units:mm)



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