

2.0X1.25mm SMD CHIP LED LAMP

APTK2012SEC SUPER BRIGHT ORANGE

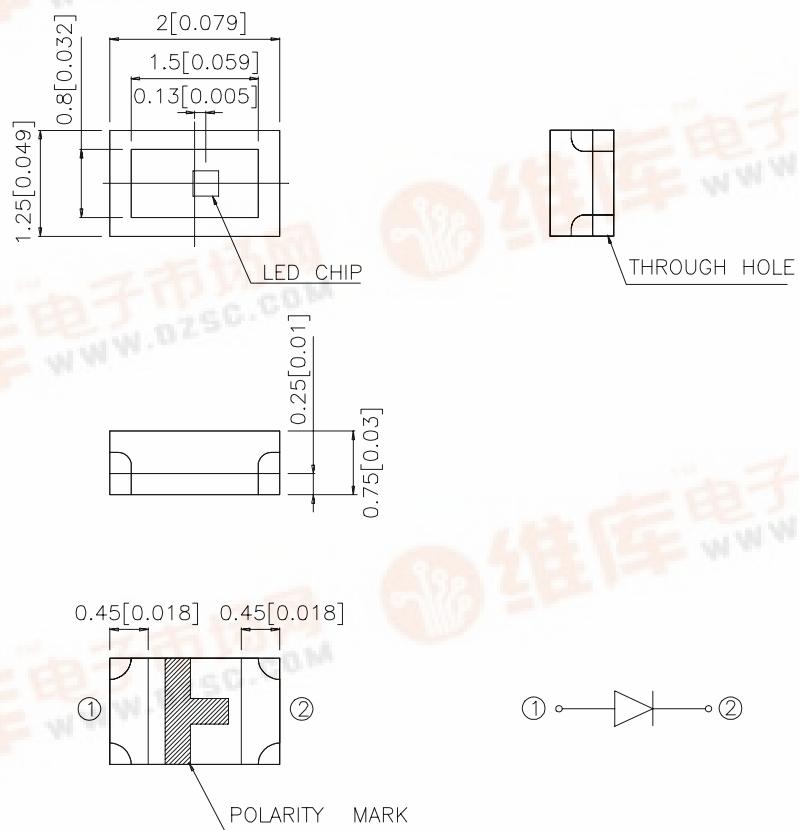
Features

- 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 InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

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.

Kingbright

Selection Guide

Part No.	Dice	Lens Type	I _V (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
APTK2012SEC	SUPER BRIGHT ORANGE (InGaAlP)	WATER CLEAR	110	280	100°

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
λpeak	Peak Wavelength	Super Bright Orange	610		nm	I _F =20mA
λ D	Dominate Wavelength	Super Bright Orange	601		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	I _F =20mA
C	Capacitance	Super Bright Orange	30		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Super Bright Orange	2.0	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Orange		10	uA	V _R = 5V

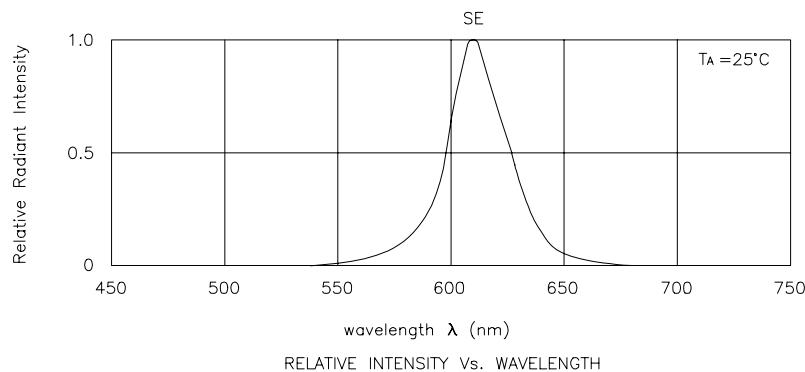
Absolute Maximum Ratings at T_A=25°C

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	

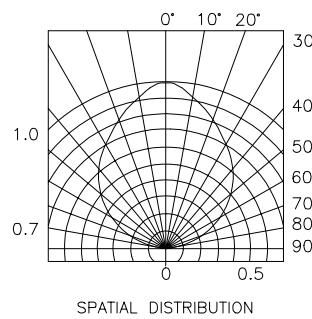
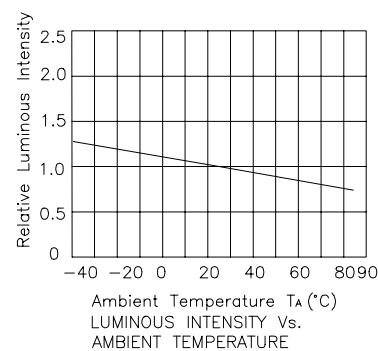
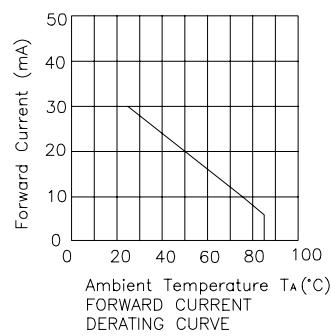
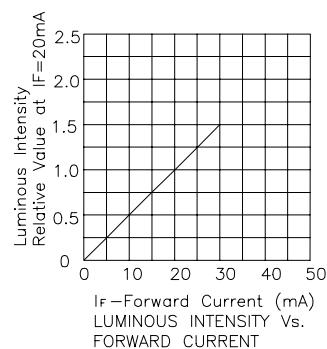
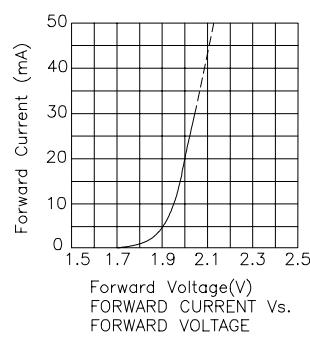
Note:

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

Kingbright



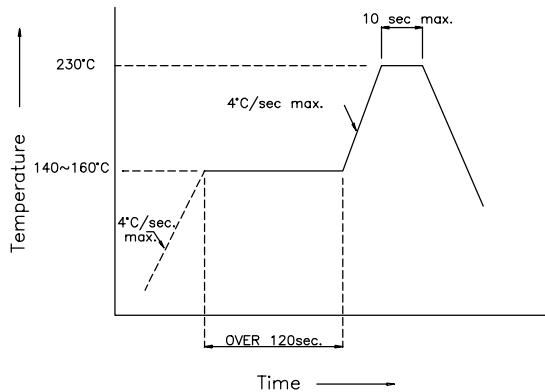
Super Bright Orange APTK2012SEC



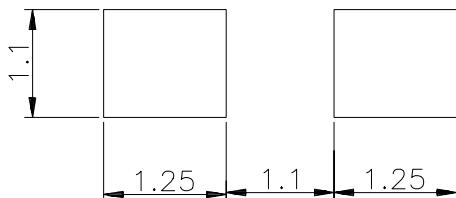
Kingbright

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)

