1.6X1.25mm BI-COLOR SMD CHIP LED LAMP

Part Number: APTB1612SEKCGKC

Super Bright Orange Green

Features

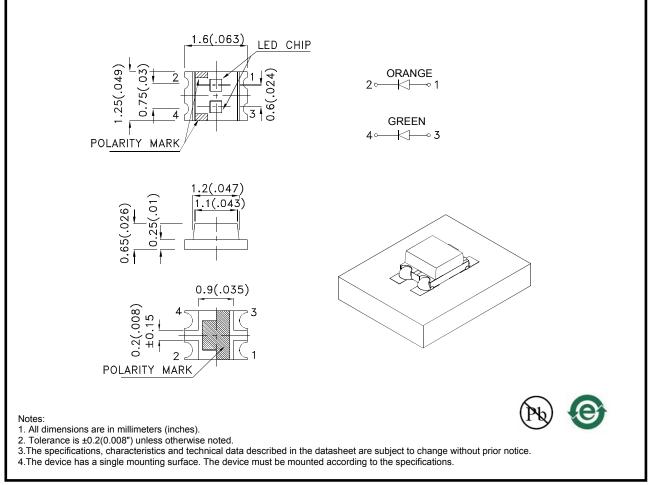
- 1.6mmx1.25mm SMT LED, 0.65mm thickness.
- Bi-color, low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



SPEC NO: DSAK7306 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: MAY/04/2010 DRAWN: C.H.Han PAGE: 1 OF 6 ERP: 1203002785

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
APTB1612SEKCGKC	Super Bright Orange (AlGaInP)		70	240	- 120°			
	Green (AlGaInP)	WATER CLEAR	18	50				

Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange Green	610 574		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange Green	601 570		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange Green	29 20		nm	IF=20mA
С	Capacitance	Super Bright Orange Green	15 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Orange Green	2.1 2.1	2.5 2.5	V	IF=20mA
lr	Reverse Current	Super Bright Orange Green		10 10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

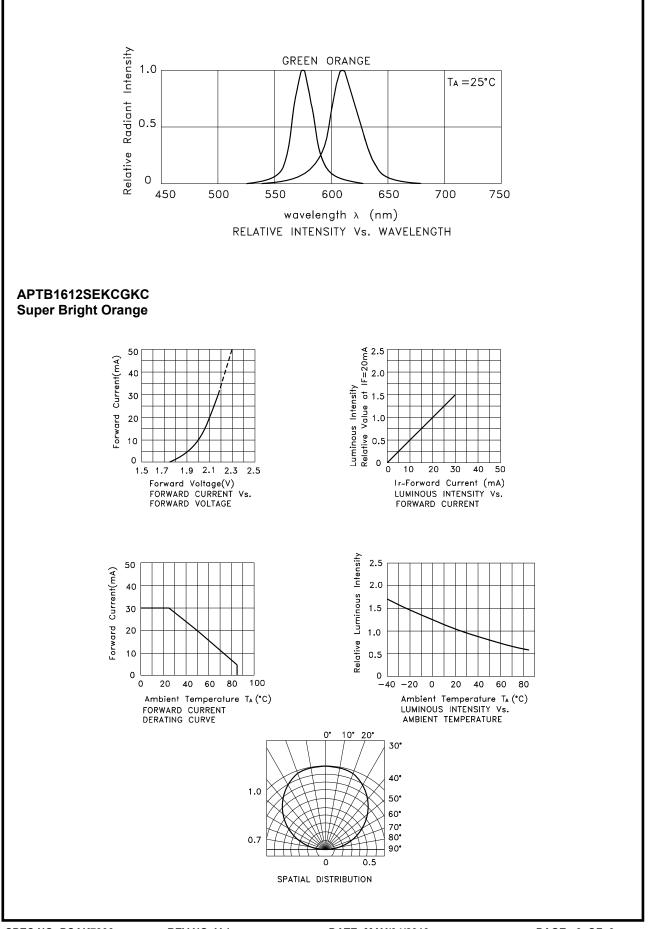
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

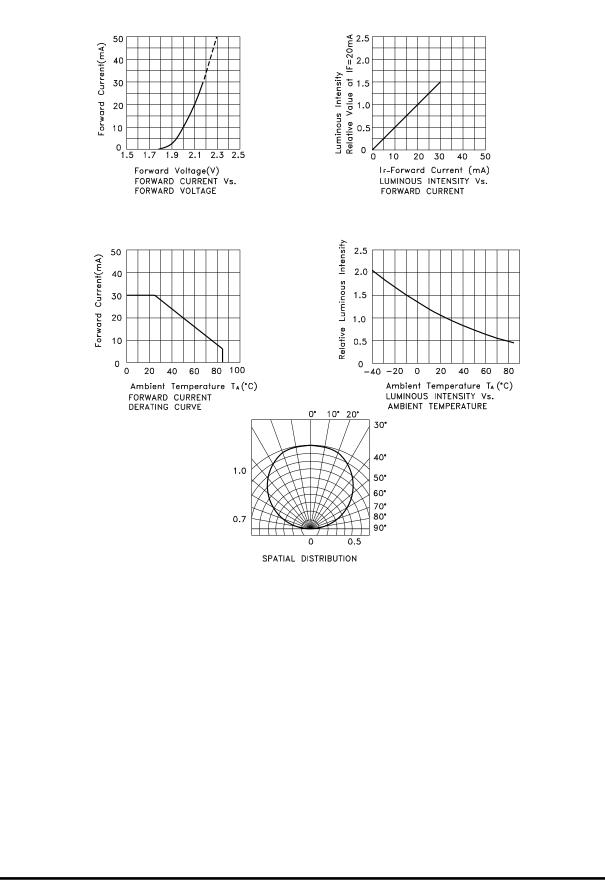
Parameter	Super Bright Orange	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	195	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



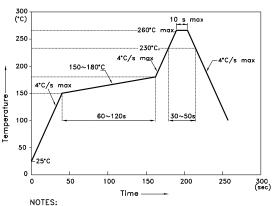




APTB1612SEKCGKC

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

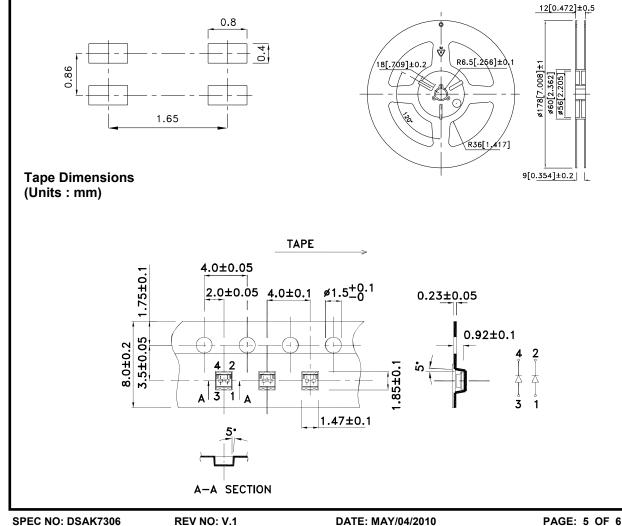
Reflow Soldering Profile For Lead-free SMT Process.



NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension



REV NO: V.1 CHECKED: Allen Liu

DRAWN: C.H.Han

