

Kingbright

3.5x2.8 mm SMD CHIP LED LAMP

Part Number: AA3528ASECK

Super Bright Orange

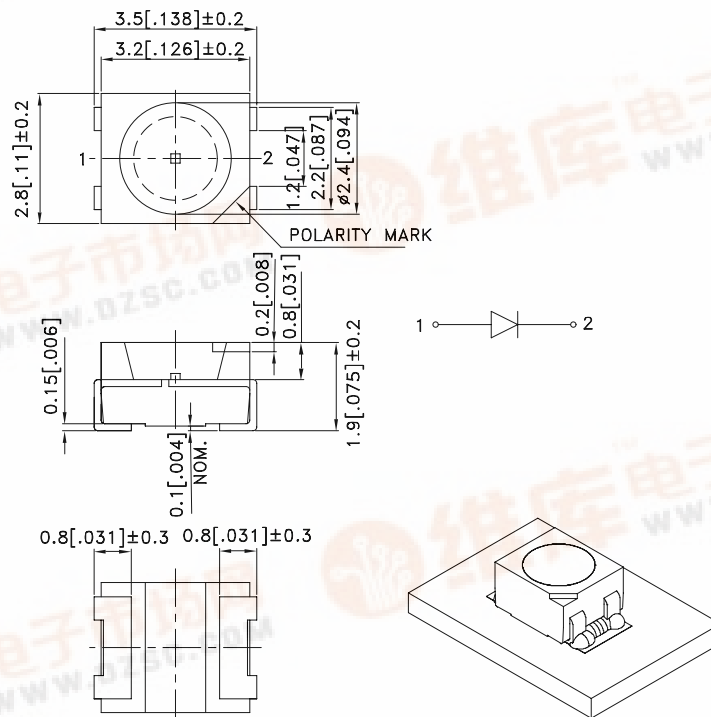
Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 1500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

Description

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

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ 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
AA3528ASECK	Super Bright Orange (InGaAlP)	WATER CLEAR	70	300	120°

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 Orange	610		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	IF=20mA
C	Capacitance	Super Bright Orange	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2.1	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

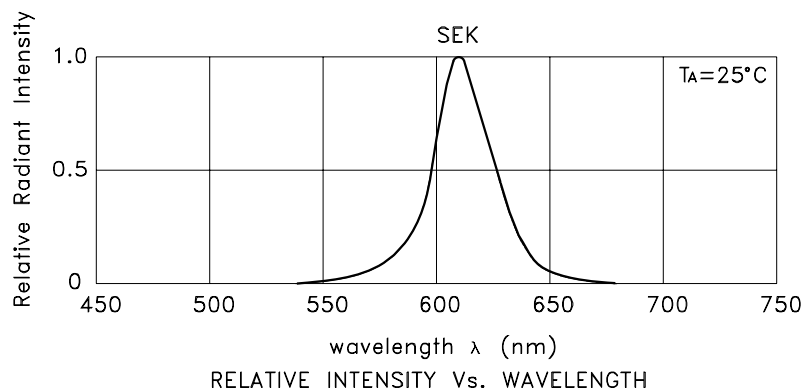
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=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 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 Orange

AA3528ASECK

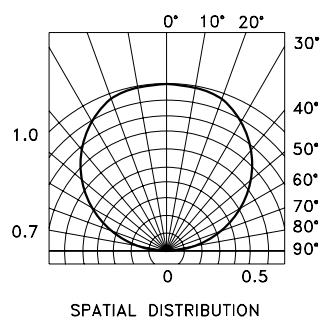
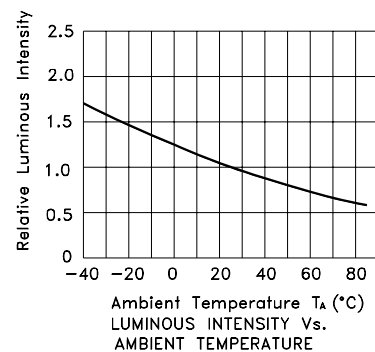
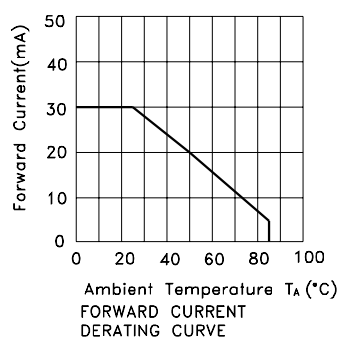
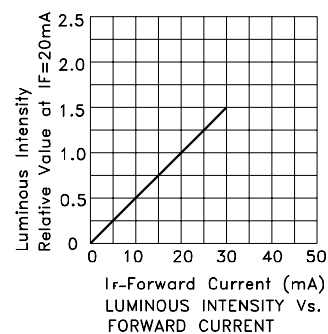
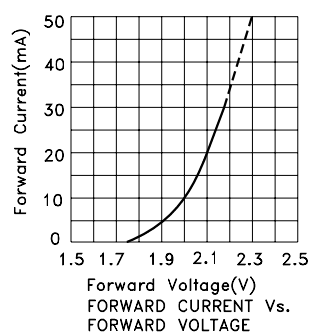


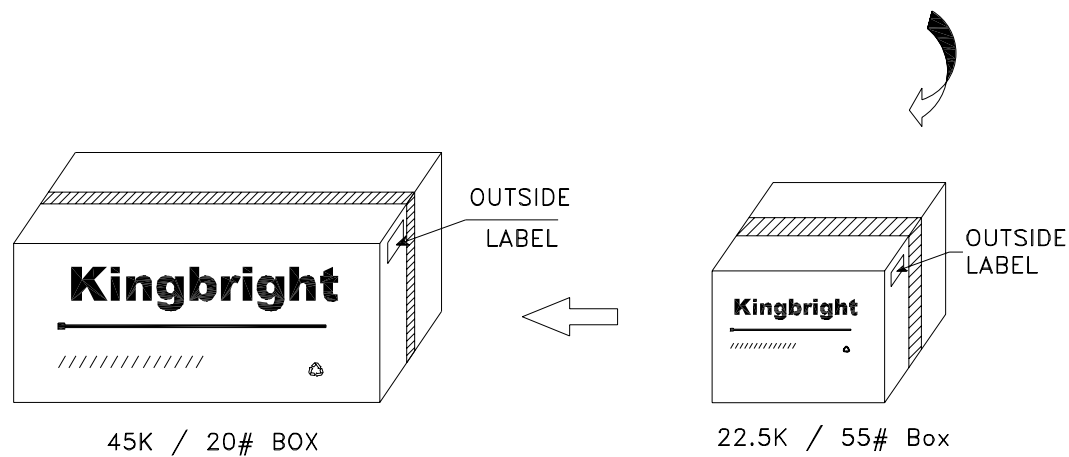
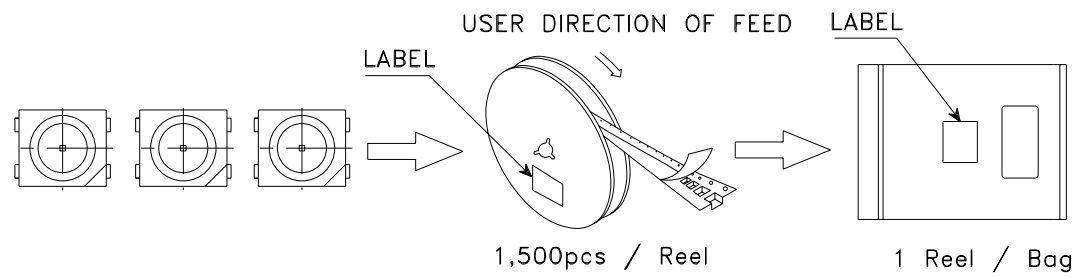
Figure 1 is a line graph showing the temperature profile of the furnace during the heat treatment of the specimen. The Y-axis represents Temperature in degrees Celsius (°C), ranging from 0 to 300. The X-axis represents Time in seconds (sec), ranging from 0 to 300. The profile starts at 25°C at 0 seconds, rises at a rate of 4°C/s to 150°C at 40 seconds. It then continues to rise at 4°C/s to 180°C at 60 seconds. From 180°C, it rises at 4°C/s to 260°C at 160 seconds. It then holds at 260°C for 10 seconds (until 170 seconds). Finally, it cools at a rate of 4°C/s to 100°C at 250 seconds.

Time (sec)	Temperature (°C)	Rate (°C/s)
0	25	-
40	150	4
60	180	4
160	260	4
170	260	0
250	100	-4

Technical drawing of a 3.5mm pitch tape carrier package. The drawing includes a top view showing a rectangular carrier with three square components, dimensions for pitch (4.0±0.1), width (12±0.3), and component dimensions (2±0.05, 3.1+0.15/-0, 3.95±0.15). It also includes a cross-section A-A showing a 5° MAX. angle and a side view showing a 5° MAX. angle and dimensions (0.25±0.1, 2.15±0.1).

PACKING & LABEL SPECIFICATIONS

AA3528ASECK



Kingbright	
P/NO: AA3528Axxx	
QTY: 1,500 pcs	Q.C. Q C xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	