3.5x2.8mm SMD CHIP LED LAMP

Part Number: APED3528SECK/J4

Super Bright Orange

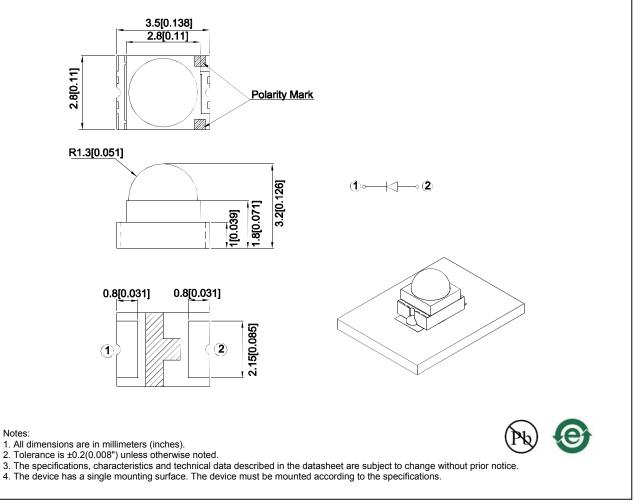
Features

- Single color.
- Suitable for all SMD assembly and solder process.
- Ideal for backlighting.
- Available on tape and reel.
- Package: 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Orange source color devices are made with AlGaInP Light Emitting Diode.

Package Dimensions



REV NO: V.2A CHECKED: Allen Liu DATE: NOV/04/2015 DRAWN: F.T.Liu PAGE: 1 OF 5 ERP: 1203014739

Selection Guide

Selection Guide					
Part No.	Emitting Color (Material)	ting Color (Material) Lens Type @ 20mA		/ - -	Viewing Angle [1]
			Min.	Тур.	201/2
APED3528SECK/J4	Super Bright Orange (AlGaInP)	Water Clear	4200	6000	40°
			*1000	*1700	

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2.Luminous intensity/ luminous Flux: +/-15%. *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange	611		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	I⊧=20mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Orange	2.2	2.8	V	l⊧=20mA
IR	Reverse Current	Super Bright Orange		10	uA	VR=5V

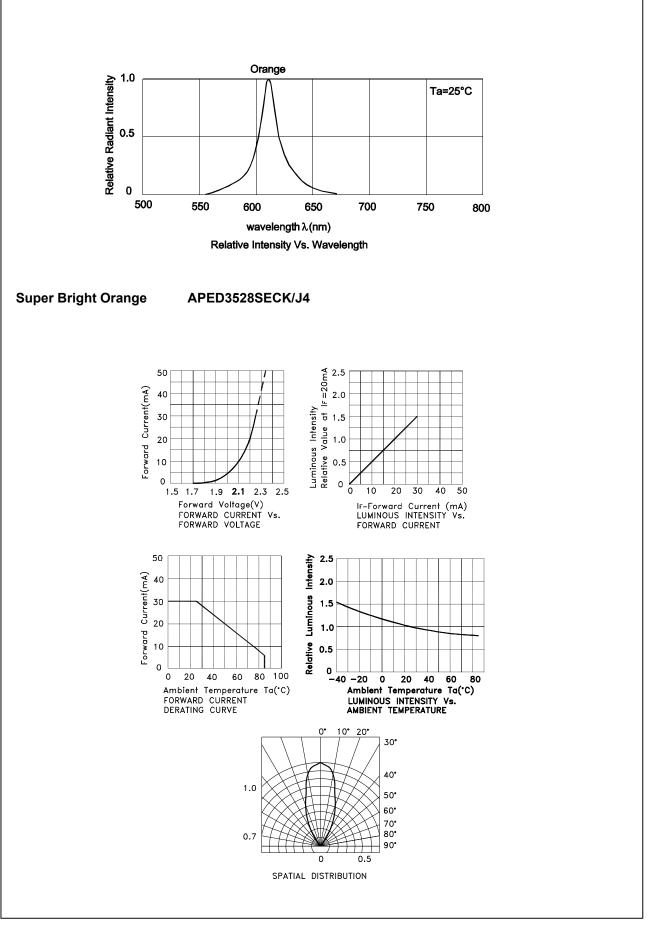
Notes: 1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	84	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

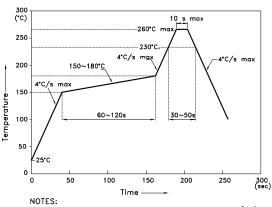
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



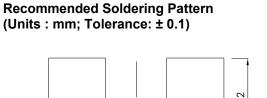
APED3528SECK/J4

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.

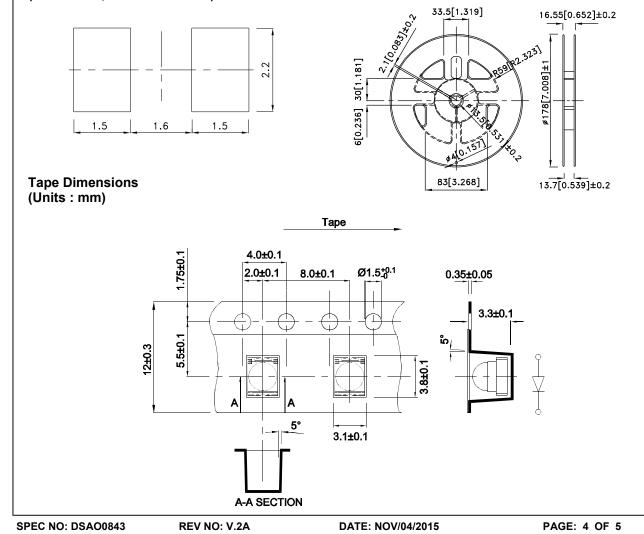


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.



APPROVED: Wynec

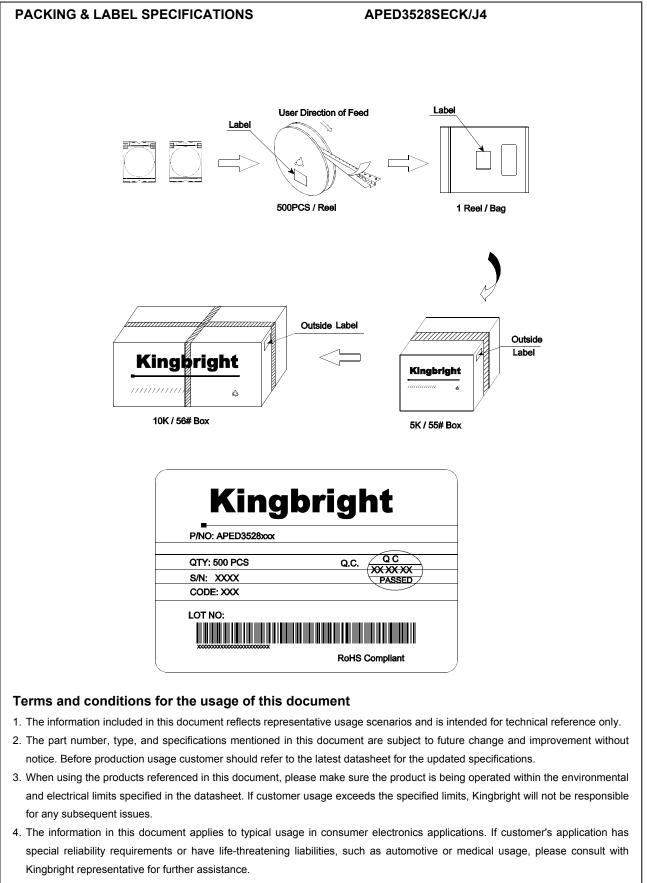




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- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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