

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608SECK/J4-PF

Super Bright Orange

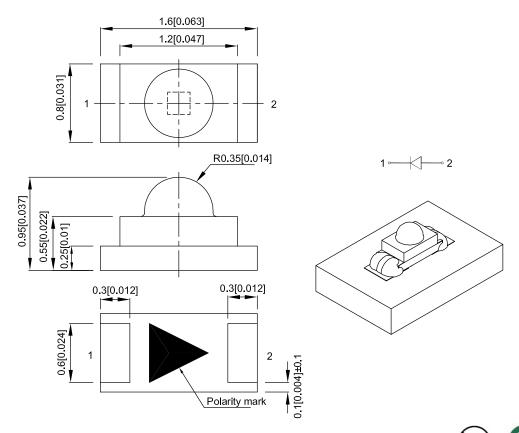
Features

- 1.6mmX0.8mm SMD LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions



SPEC NO: DSAN2826

APPROVED: Wynec

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.4A DATE: MAR/22/2016 PAGE: 1 OF 5 **CHECKED: Allen Liu** DRAWN: M.Liu ERP: 1203014037



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
ADTD46008F.CV/IA DE	Current Drinkt Oren de (ALCelaD)	Matan Class	3300	4200	- 60°
APTD1608SECK/J4-PF	Super Bright Orange (AlGaInP)	Water Clear	*1000	*1600	

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%.
 * Luminous intensity value is traceable to CIE127-2007 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	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	IF=20mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2.2	2.8	V	IF=20mA
lr	Reverse Current	Super Bright Orange		10	uA	V _R =5V

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

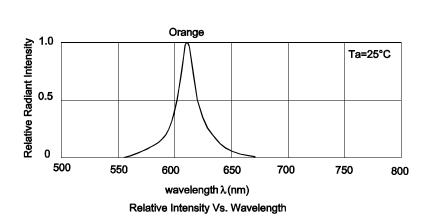
Parameter	Values		
Power dissipation	ower dissipation 84		
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Notes:

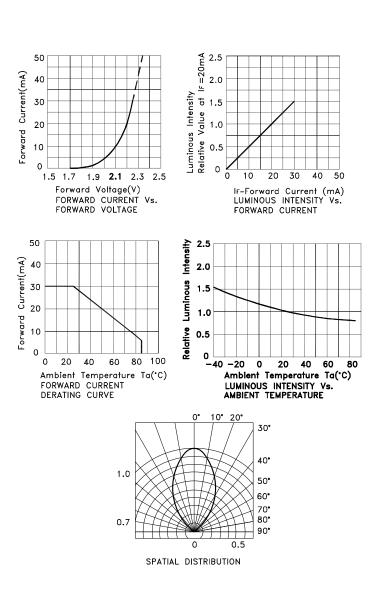
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

SPEC NO: DSAN2826 **REV NO: V.4A DATE: MAR/22/2016** PAGE: 2 OF 5 **CHECKED: Allen Liu** APPROVED: Wynec DRAWN: M.Liu ERP: 1203014037

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Super Bright Orange APTD1608SECK/J4-PF



 SPEC NO: DSAN2826
 REV NO: V.4A
 DATE: MAR/22/2016
 PAGE: 3 OF 5

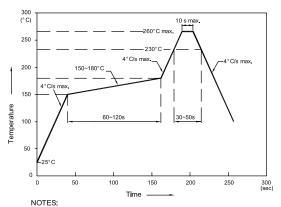
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APTD1608SECK/J4-PF

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.

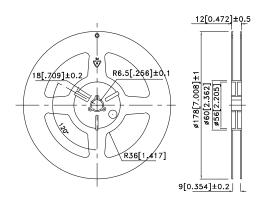


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

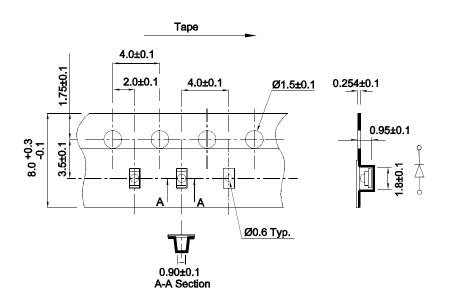
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.8 0.85 0.8

Reel Dimension



Tape Dimensions (Units : mm)

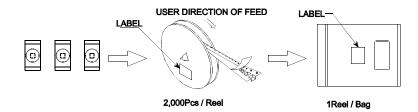


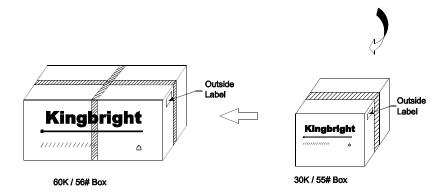
SPEC NO: DSAN2826 APPROVED: Wynec REV NO: V.4A CHECKED: Allen Liu DATE: MAR/22/2016 DRAWN: M.Liu PAGE: 4 OF 5 ERP: 1203014037

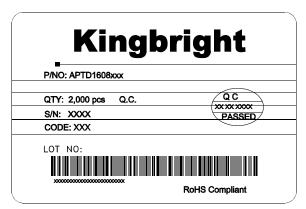


PACKING & LABEL SPECIFICATIONS

APTD1608SECK/J4-PF







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SPEC NO: DSAN2826 **REV NO: V.4A DATE: MAR/22/2016** PAGE: 5 OF 5 **APPROVED: Wynec** CHECKED: Allen Liu DRAWN: M.Liu ERP: 1203014037