

3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: APBVA3010SURKCGKC

Hyper Red Green

Features

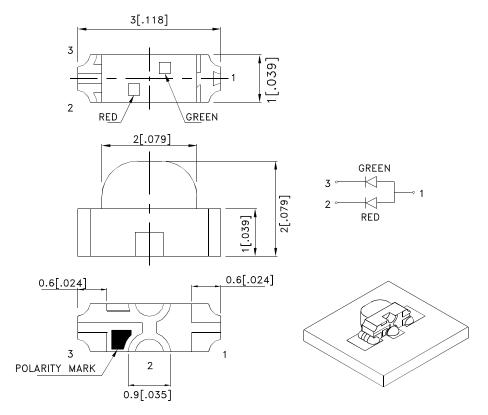
- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

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

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") 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.





SPEC NO: DSAI8842 APPROVED: WYNEC **REV NO: V.2 CHECKED: Allen Liu** DATE: APR/01/2009 DRAWN: S.M.Wu

PAGE: 1 OF 6 ERP: 1203008694

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
APBVA3010SURKCGKC	Hyper Red (AlGaInP)	WATER CLEAR	110	200	140°
	Green (AlGaInP)	WATER CLEAR	18	50	

- 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	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Hyper Red Green	650 574		nm	m IF=20mA	
λD [1]	Dominant Wavelength	Hyper Red Green	630 570		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Hyper Red Green	28 20		nm	IF=20mA	
С	Capacitance	Hyper Red Green	35 15		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Hyper Red Green	1.95 2.1	2.5 2.5	V	Ir=20mA	
lR	Reverse Current	Hyper Red Green		10 10	uA	V _R = 5V	

Notes:

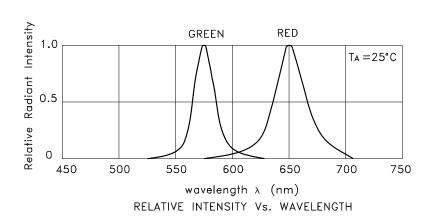
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

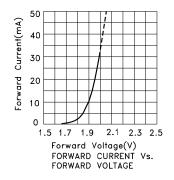
Parameter	Hyper Red	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

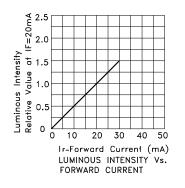
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

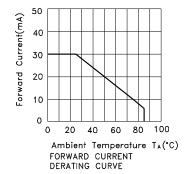
SPEC NO: DSAI8842 REV NO: V.2 DATE: APR/01/2009 PAGE: 2 OF 6 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.M.Wu ERP: 1203008694

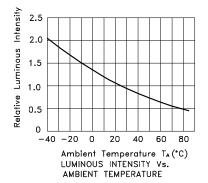


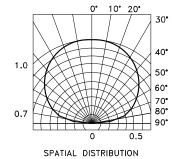
APBVA3010SURKCGKC Hyper Red







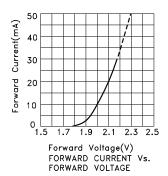


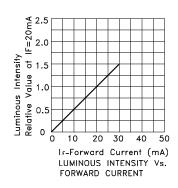


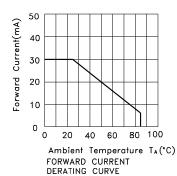
 SPEC NO: DSAI8842
 REV NO: V.2
 DATE: APR/01/2009
 PAGE: 3 OF 6

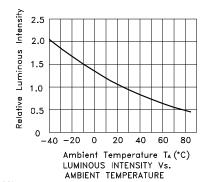
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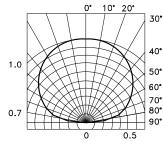
Green











SPATIAL DISTRIBUTION

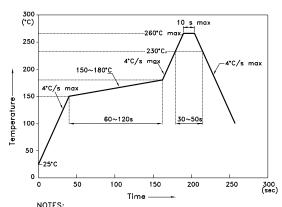
 SPEC NO: DSAI8842
 REV NO: V.2
 DATE: APR/01/2009
 PAGE: 4 OF 6

 APPROVED: WYNEC
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APBVA3010SURKCGKC

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.



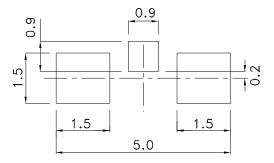
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

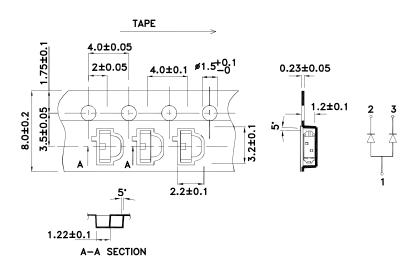
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

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



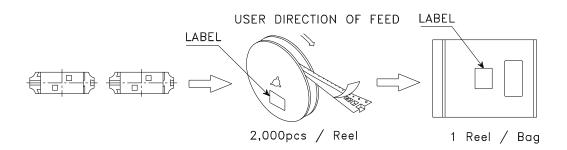
Tape Dimensions (Units: mm)

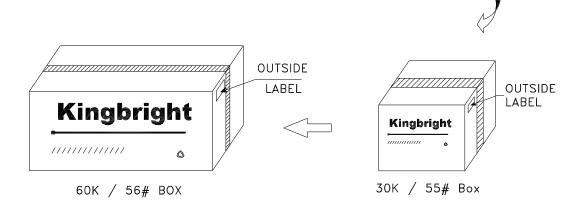


SPEC NO: DSAI8842 **REV NO: V.2** DATE: APR/01/2009 PAGE: 5 OF 6 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.M.Wu ERP: 1203008694

PACKING & LABEL SPECIFICATIONS

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