

3.5 x2.8mm SMD CHIP LED LAMP

Part Number: APED3528SURCK-F01 Hyper Red

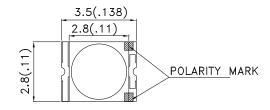
Features

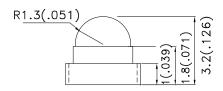
- Single color.
- Suitable for all SMT assembly and solder process.
- Ideal for backlighting.
- Available on tape and reel.
- Package: 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

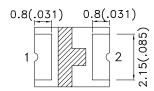
The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

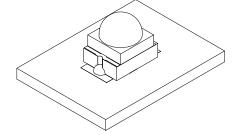
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ 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: DSAH3739 **REV NO: V.2** DATE: MAR/24/2009 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.P.Chen ERP: 1203001143

Selection Guide

Part No.	Dice	lv (mcd) [2] Dice Lens Type @ 20mA		,	Viewing Angle [1]
		21	Min.	Тур.	201/2
APED3528SURCK-F01	Hyper Red (AlGaInP)	WATER CLEAR	380	800	40°

- 1. 01/2 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	650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95	2.5	V	IF=20mA
lr	Reverse Current	Hyper Red		10	uA	V _R =5V

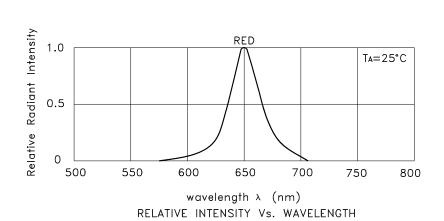
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Autobiate maximum reamings at 171 20 0						
Hyper Red						
75	mW					
30	mA					
185	mA					
5	V					
-40°C To +85°C						
-40°C To +85°C						
	Hyper Red 75 30 185 5 -40°C To +85°C					

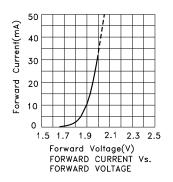
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

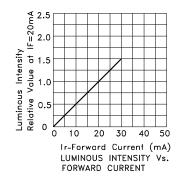
SPEC NO: DSAH3739 **REV NO: V.2** DATE: MAR/24/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: S.P.Chen ERP: 1203001143

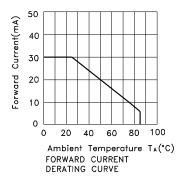


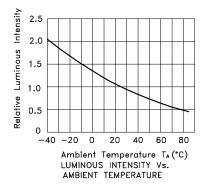
Hyper Red

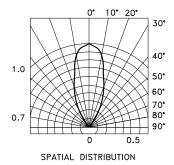
APED3528SURCK-F01











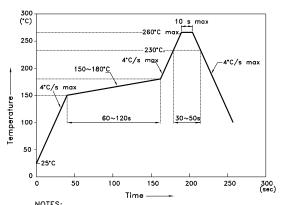
 SPEC NO: DSAH3739
 REV NO: V.2
 DATE: MAR/24/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
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APED3528SURCK-F01

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.



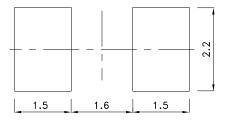
NOTES:

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

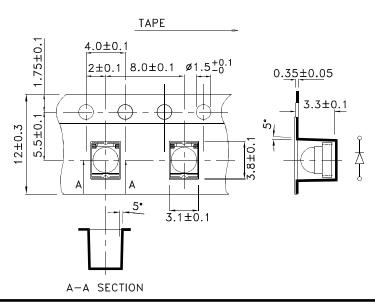
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

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

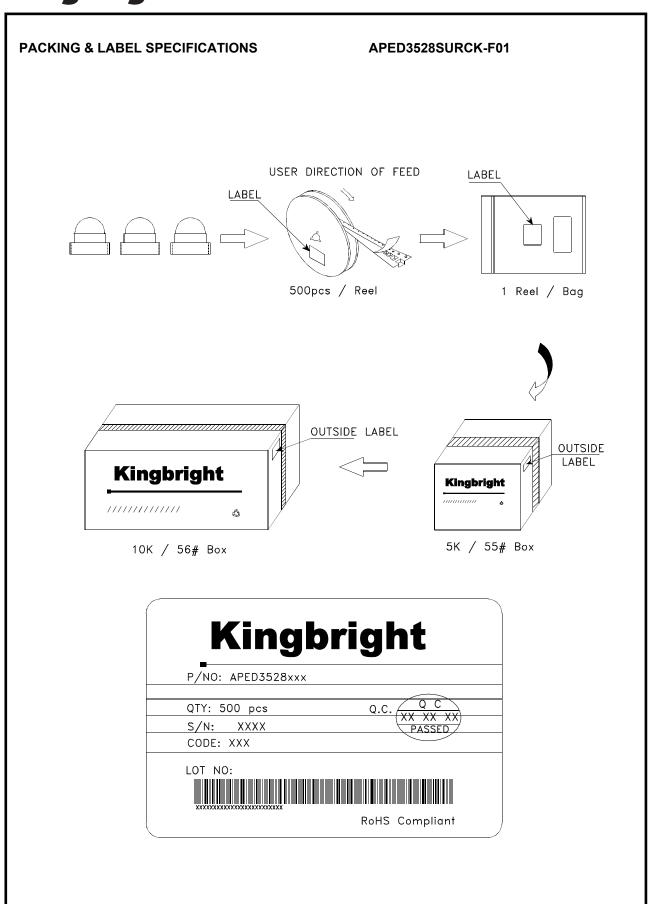


Tape Dimensions (Units : mm)



 SPEC NO: DSAH3739
 REV NO: V.2
 DATE: MAR/24/2009
 PAGE: 4 OF 5

 APPROVED: WYNEC
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SPEC NO: DSAH3739 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: MAR/24/2009 DRAWN: S.P.Chen PAGE: 5 OF 5 ERP: 1203001143