

SUBMINIATURE SOLID STATE LAMP

PRELIMINARY SPEC

Part Number: AM2520SURCK08

Hyper Red

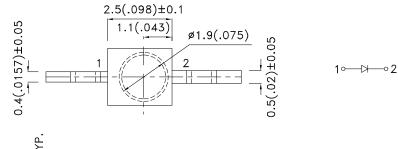
Features

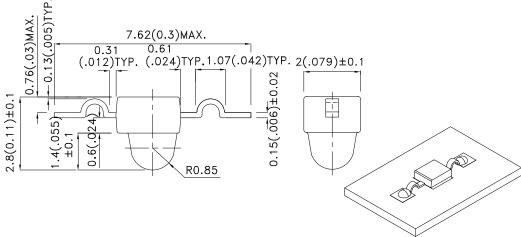
- Subminiature package.
- Yoke lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package: 1000pcs / reel.
- RoHS compliant.

Description

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

Package Dimensions





Notes:

- 1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.





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Selection Guide

Part No.	Dice	Lens Type	Lens Type Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
AM2520SURCK08	Hyper Red (AlGaInP)	WATER CLEAR	900	1800	20°

- 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

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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	V _F =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:

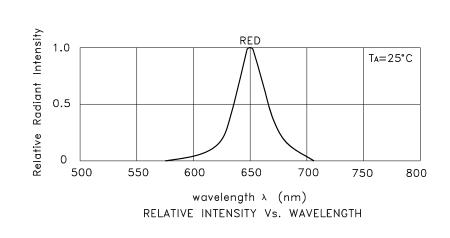
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

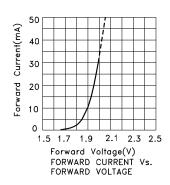
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

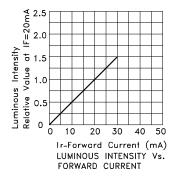
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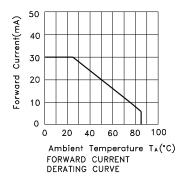


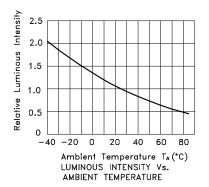
Hyper Red

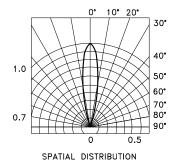
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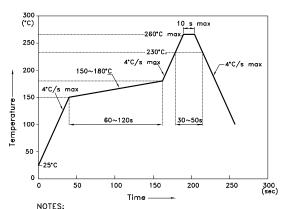
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



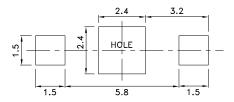
- NOTES:

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

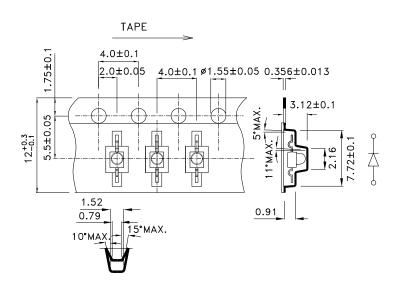
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

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

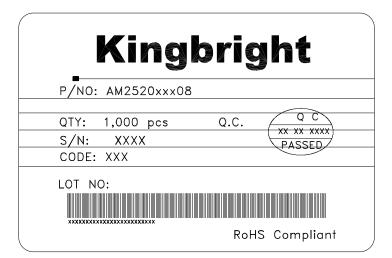


Tape Dimensions (Units : mm)



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PACKING & LABEL SPECIFICATIONS USER DIRECTION OF FEED LABEL 1,000pcs / Reel 1 Reel / Bag OUTSIDE LABEL Kingbright Kingbright Kingbright



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20K / 56# BOX

DATE: MAY/18/2009 DRAWN: Ting.Li

10K / 55# Box

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