

SUBMINIATURE SOLID STATE LAMP

PRELIMINARY SPEC

Part Number: AM2520SYCK08

Super Bright Yellow

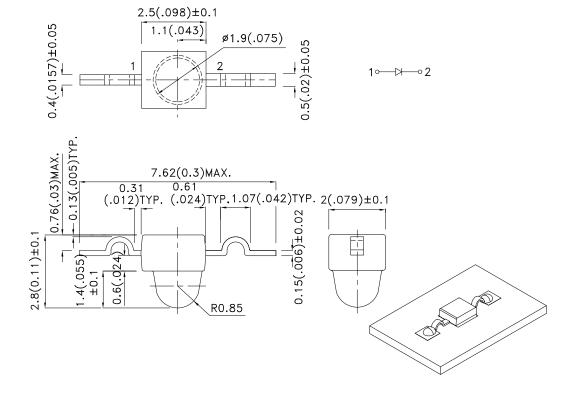
Features

- SUBMINIATURE PACKAGE.
- WIDE VIEWING ANGLE.
- YOKE LEAD.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.
- MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- PACKAGE: 1000PCS/REEL.
- RoHS COMPLIANT.

Description

The Super Bright Yellow device is made with InGaAIP (on GaAs substrate) light emitting diode chip.

Package Dimensions



Notes:

- All dimensions are in millimeters (inches).
 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.





SPEC NO: DSAD1273 **REV NO: V.6 DATE: JAN/17/2008** PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202000719

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		21	Min.	Тур.	201/2
AM2520SYCK08	Super Bright Yellow (InGaAlP)	WATER CLEAR	650	1300	20°

Notes:

- 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	Super Bright Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=20mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

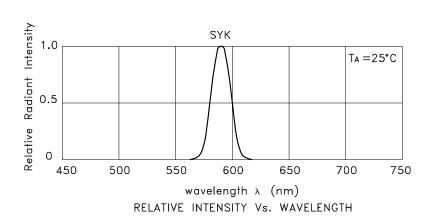
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

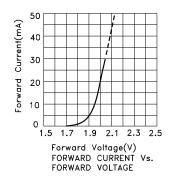
Parameter	Super Bright Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	175		
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

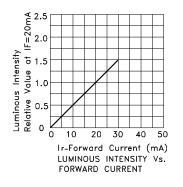
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

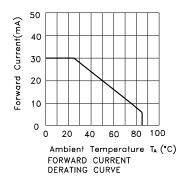
SPEC NO: DSAD1273 **REV NO: V.6 DATE: JAN/17/2008** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202000719

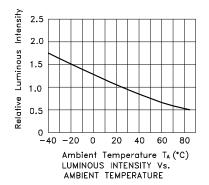


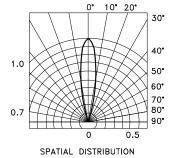
Super Bright Yellow AM2520SYCK08









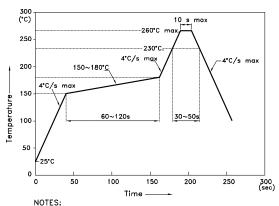


 SPEC NO: DSAD1273
 REV NO: V.6
 DATE: JAN/17/2008
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.F.Lu
 ERP: 1202000719

AM2520SYCK08

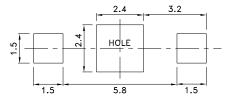
Reflow Soldering Profile For Lead-free SMT Process.



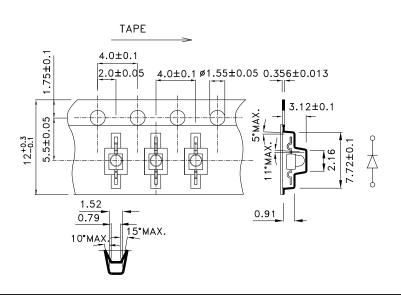
- NOTES:

 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 Specifications (Units: mm)

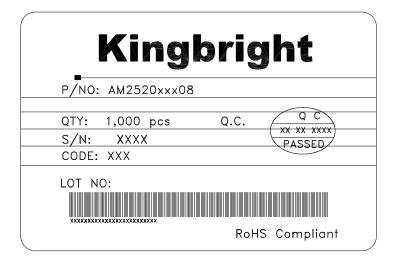


SPEC NO: DSAD1273 APPROVED: WYNEC

REV NO: V.6 CHECKED: Allen Liu **DATE: JAN/17/2008** DRAWN: Y.F.Lu

PAGE: 4 OF 5 ERP: 1202000719

PACKING & LABEL SPECIFICATIONS AM2520SYCK08 USER DIRECTION OF FEED LABEL LABEL 1,000pcs / Reel 1 Reel / Bag OUTSIDE OUTSIDE LABEL LABEL Kingbright Kingbright 10K / 55# Box 20K / 56# BOX



SPEC NO: DSAD1273
APPROVED: WYNEC

REV NO: V.6 CHECKED: Allen Liu DATE: JAN/17/2008 DRAWN: Y.F.Lu PAGE: 5 OF 5 ERP: 1202000719