

SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23SYD-F

Super Bright Yellow

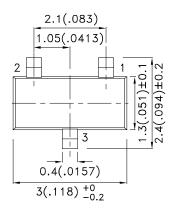
Features

- •SOT-23 package surface mount LED lamp.
- •Low power consumption.
- ●Long life solid state reliability.
- ●Package: 2000pcs / reel.
- •Moisture sensitivity level : level 3.
- ●RoHS compliant.

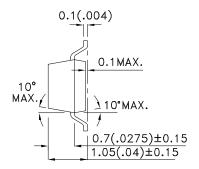
Description

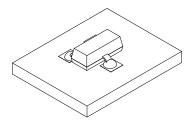
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions



- 1 ANODE
- 2 N.C.
- 3 CATHODE





Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the lead 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: DSAD1250 **REV NO: V.6** DATE: MAR/31/2009 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202000103

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		-	Min.	Тур.	201/2
AM23SYD-F	Super Bright Yellow (AlGaInP)	YELLOW DIFFUSED	50	100	140°

- 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	28		nm	IF=20mA
С	Capacitance	Super Bright Yellow	25		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	VR=5V

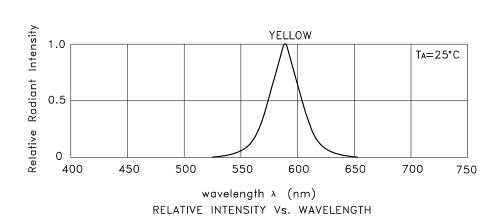
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

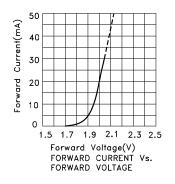
Parameter	Super Bright Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

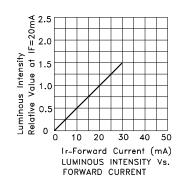
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

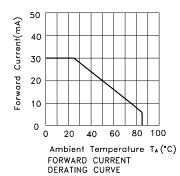
SPEC NO: DSAD1250 **REV NO: V.6** DATE: MAR/31/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202000103

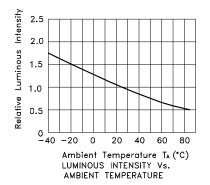


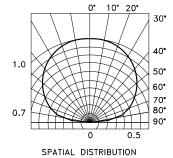
Super Bright Yellow AM23SYD-F











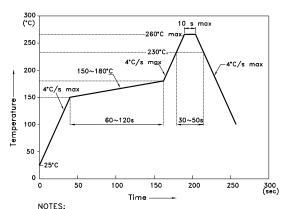
 SPEC NO: DSAD1250
 REV NO: V.6
 DATE: MAR/31/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Y.F.Lu
 ERP: 1202000103

AM23SYD-F

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.



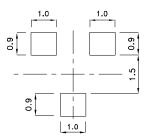
- NOTES:

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

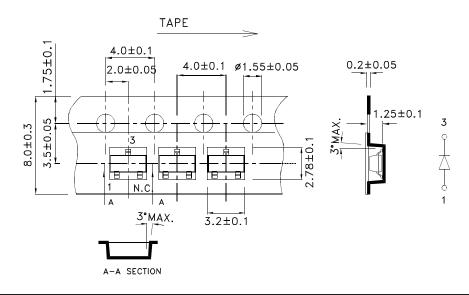
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

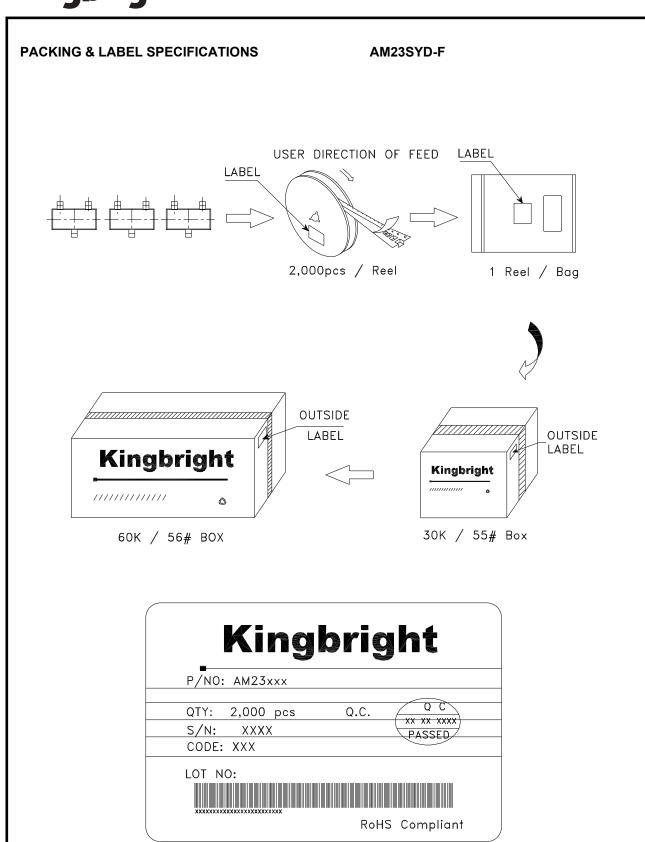
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)



SPEC NO: DSAD1250 **REV NO: V.6 DATE: MAR/31/2009** PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1202000103



SPEC NO: DSAD1250 APPROVED: WYNEC REV NO: V.6 CHECKED: Allen Liu DATE: MAR/31/2009 DRAWN: Y.F.Lu PAGE: 5 OF 5 ERP: 1202000103