

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Kingbright AM23YD-F

For any questions, you can email us directly: sales@integrated-circuit.com

Kingbright

SOT-23 SURFACE MOUNT LED LAMP

Part Number: AM23YD-F Yellow

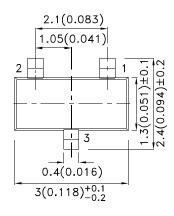
Features

- 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.

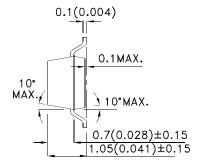
Description

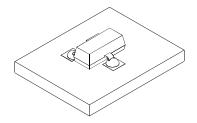
The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



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





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





PAGE: 1 OF 5 SPEC NO: DSAB0889 **REV NO: V.15B DATE: MAR/18/2015**



Distributor of Kingbright: Excellent Integrated System Limited

Datasheet of AM23YD-F - LED YELLOW DIFFUSED TO236-3 SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Kingbright

Selection Guide

Part No.	Dice Lens Type		lv (mcd) [2] @ 20mA		Viewing Angle [1]
		, , , , , , , , , , , , , , , , , , ,	Min.	Тур.	201/2
AM23YD-F	Yellow (GaAsP/GaP)	Yellow Diffused	3	8	140°

Notes

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
- 2. Luminous intensity/ luminous Flux: +/-15%.
- 3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Yellow	588		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	IF=20mA
С	Capacitance	Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Yellow	2.1	2.5	V	IF=20mA
lr	Reverse Current	Yellow		10	uA	V _R =5V

Notes:

- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

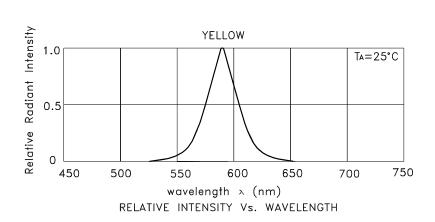
Note:

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

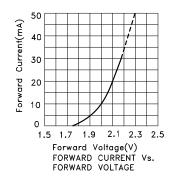
SPEC NO: DSAB0889 REV NO: V.15B DATE: MAR/18/2015 PAGE: 2 OF 5

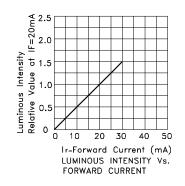


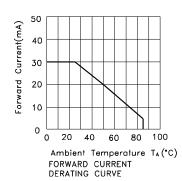
Kingbright

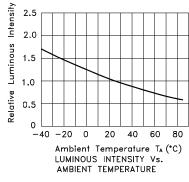


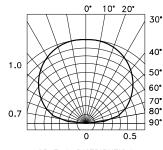
Yellow AM23YD-F











SPATIAL DISTRIBUTION

SPEC NO: DSAB0889 REV NO: V.15B DATE: MAR/18/2015 PAGE: 3 OF 5

Distributor of Kingbright: Excellent Integrated System Limited

Datasheet of AM23YD-F - LED YELLOW DIFFUSED TO236-3 SMD

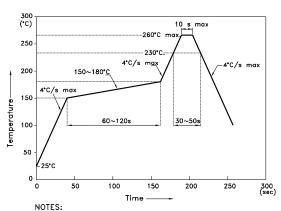
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Kingbright

AM23YD-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.



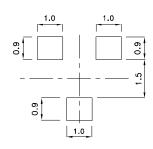
Oles:

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.

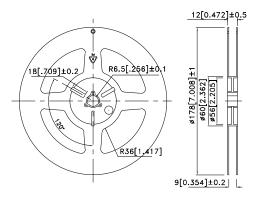
3.Number of reflow process shall be 2 times or less.

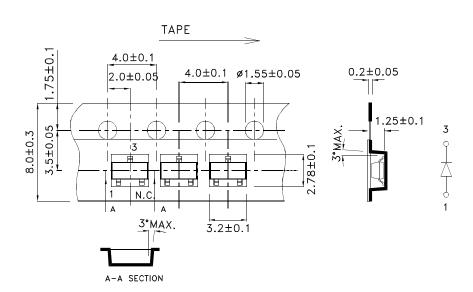
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)

Reel Dimension





SPEC NO: DSAB0889 REV NO: V.15B DATE: MAR/18/2015 PAGE: 4 OF 5

Distributor of Kingbright: Excellent Integrated System Limited

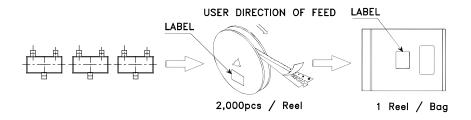
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

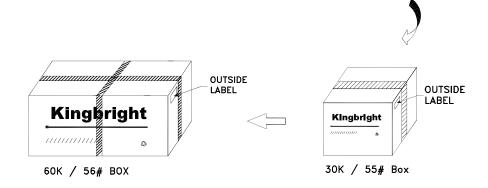
Datasheet of AM23YD-F - LED YELLOW DIFFUSED TO236-3 SMD

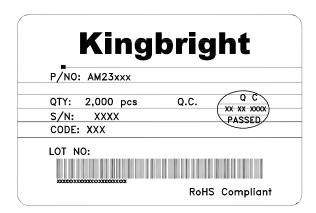
Kingbright

PACKING & LABEL SPECIFICATIONS

AM23YD-F







Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

SPEC NO: DSAB0889 REV NO: V.15B DATE: MAR/18/2015 PAGE: 5 OF 5