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Kingbright ACDA03-41SURKWA-F01

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SURFACE MOUNT DISPLAY

Part Number: ACDA03-41SURKWA-F01 Hyper Red

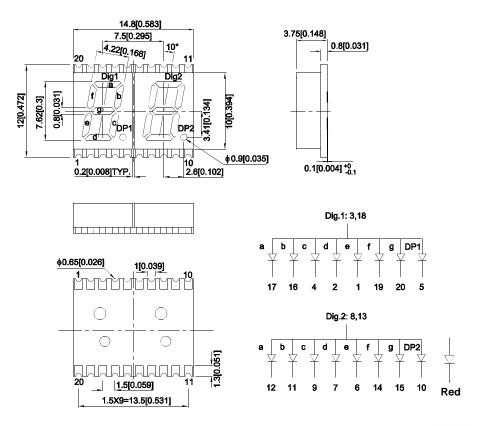
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Package :300pcs / reel.
- Gray face, white segment.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram





SPEC NO: DSAG0223

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

3. The gap between the reflector and PCB shall not exceed 0.25mm.

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Datasheet of ACDA03-41SURKWA-F01 - DISPLAY 650NM RED 2DIG 0.3" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACDA03-41SURKWA-F01	Hyper Red (AlGaInP)	White Diffused	14000	27000	Common Anode, Rt. Hand Decimal.
			*3600	*6400	

Note:

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	645		nm	IF=10mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=10mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.85	2.5	V	IF=10mA
lR	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. 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	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note

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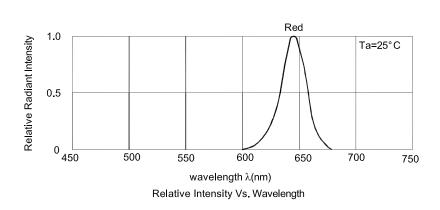
^{1.}Luminous intensity/ luminous Flux: +/-15%.

^{*}Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

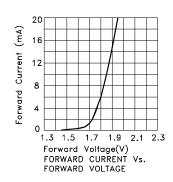


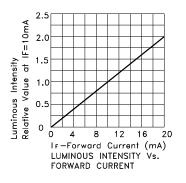
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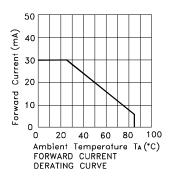


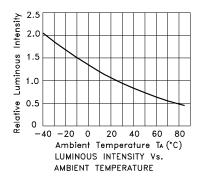
Hyper Red

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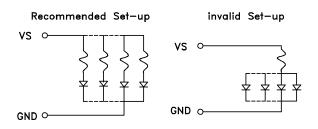






CIRCUIT DESIGN NOTES

- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



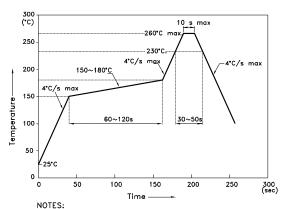
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Reflow Soldering Profile For Lead-free SMT Process.



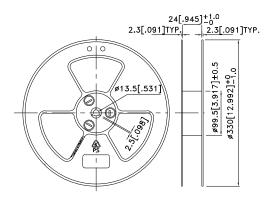
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

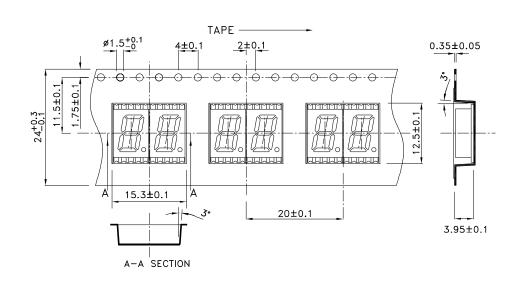
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.5X9 = 13.51.5

Reel Dimension



Tape Specifications (Units: mm)



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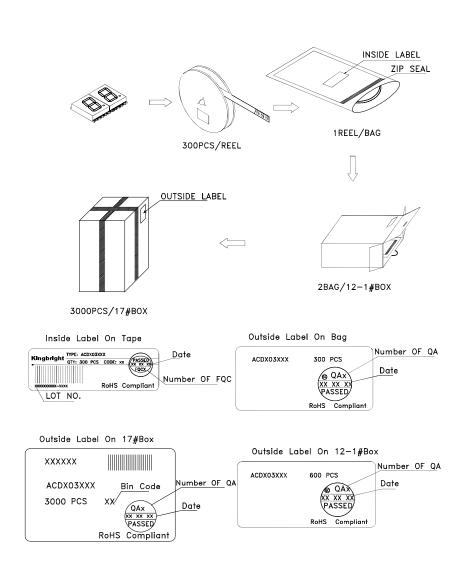
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PACKING & LABEL SPECIFICATIONS

ACDA03-41SURKWA-F01



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