10mm (0.4INCH) DUAL DIGIT NUMERIC DISPLÀY

The Super Bright Yellow device is made with AlGaInP (on

Part Number: DC04-11SYKWA

Description

Super Bright Yellow

GaAs substrate) light emitting diode chip.

Features

- 0.4 inch digit height.
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Two digit package simplifies alignments & assembly.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Package Dimensions& Internal Circuit Diagram

5.976(0.235) 1.0(0.039) 16 Dig1 Dig2 c 16(0.63) 0(0.394) 12.7(0.5) lc DP1 DP2 ハ 8 3.4(0.134) ø1.3(0.051) 10.16(0.4) 20.2(0.795) Dig1:4 7(0.276) d ь с 古 | 13 0.157)±0.5 Ŧ 古 | 3 ⊅ Φ Ф Φ Ø0.5(0.02)+0.25 15 1 2 14 16 Dig2:5 2.54(0.1)1.21(0.048) ь d c RECOMMENDED PCB LAYOUT 古 Ŧ A 10 12.7(0.5) 1 ø1.0-16 2.54(0.1) 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.

Notes:

DATE: JAN/19/2013 **DRAWN: Y.Liu**

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Selection Guide									
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
DC04-11SYKWA	Super Bright Yellow (AlGaInP)	White Diffused	31000	84000	Common Cathode				
			*14000	*28000					

Notes:

1. Luminous intensity/ luminous Flux: +/-15%. *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	Super Bright Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	I⊧=20mA
С	Capacitance	Super Bright Yellow	20		pF	V⊧=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2.0	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Yellow		10	uA	VR=5V

Notes:

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

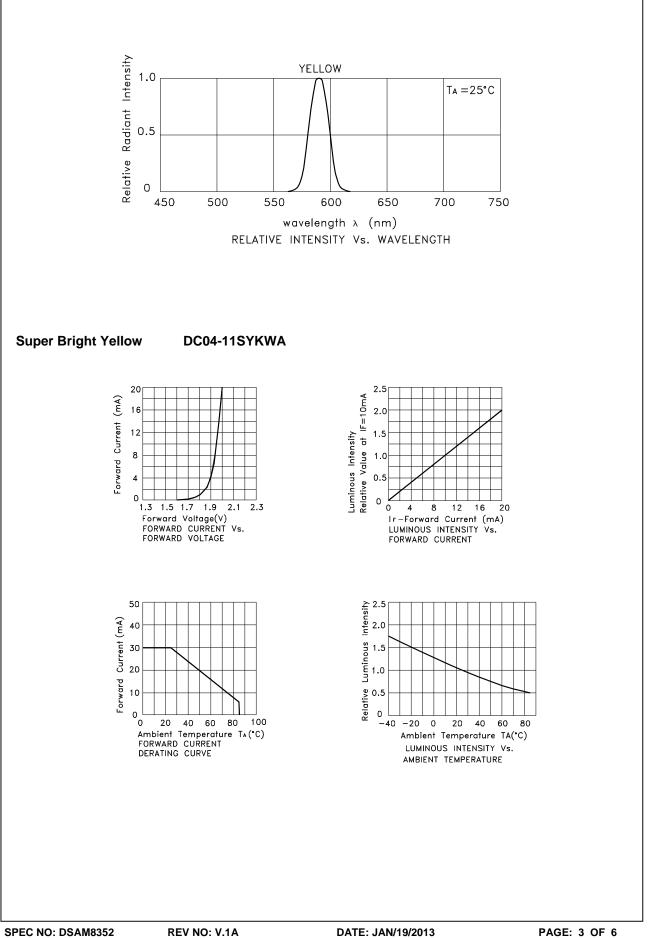
3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

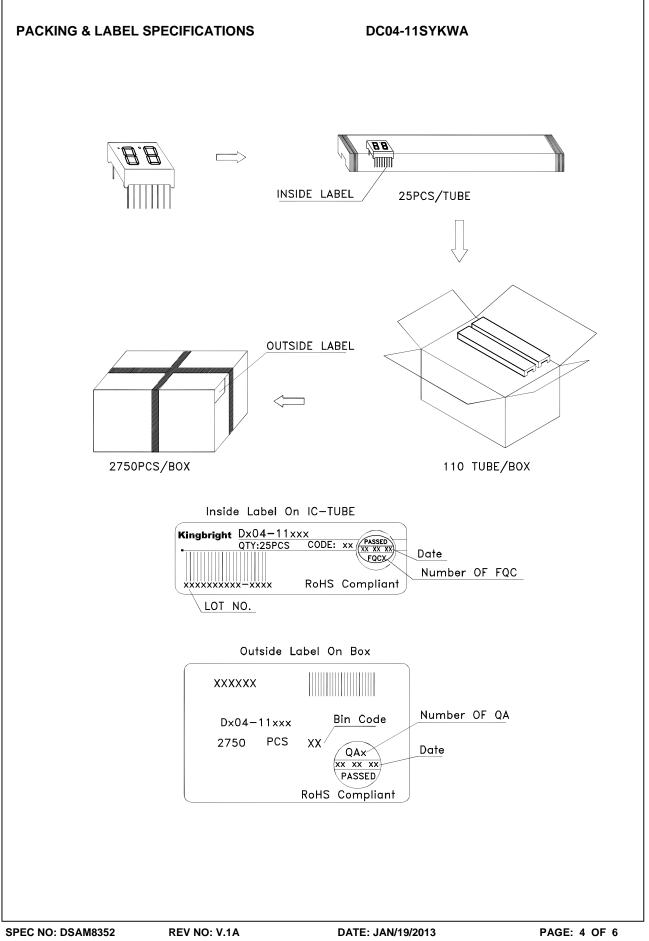
Absolute Maximum Ratings at TA=25°C

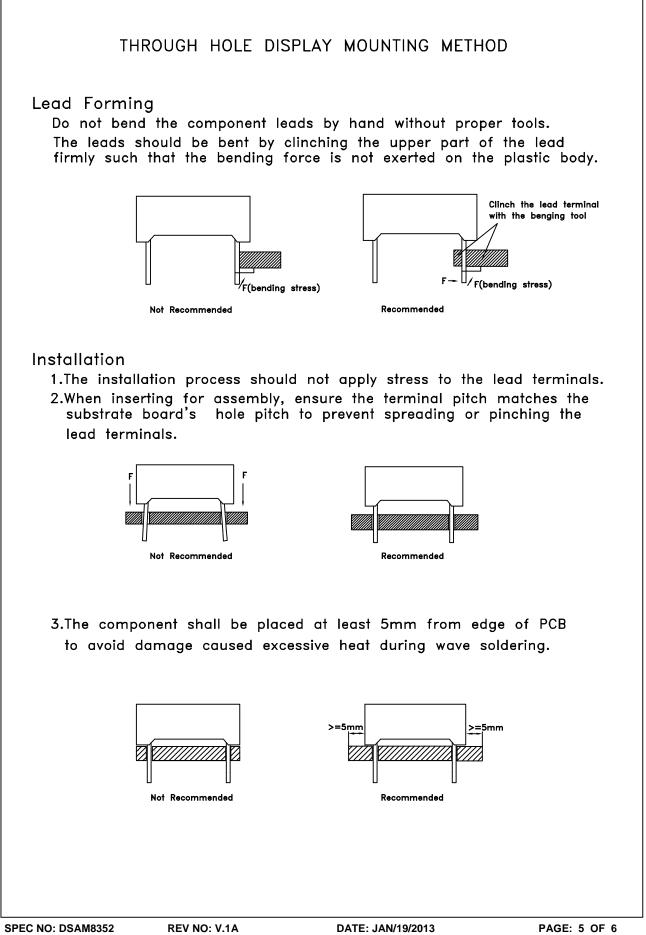
Parameter	Super Bright Yellow			
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	175	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature[2]	260°C For 3-5 Seconds			

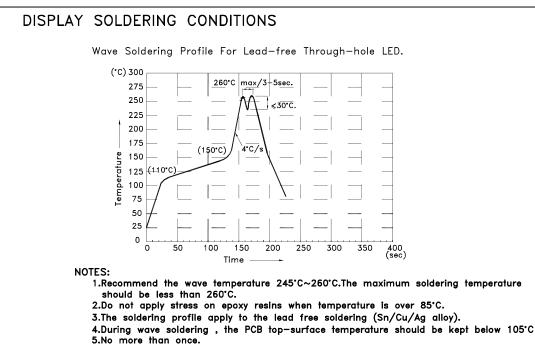
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.









Soldering General Notes:

- 1. Through-hole displays are incompatible with reflow soldering.
- 2. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

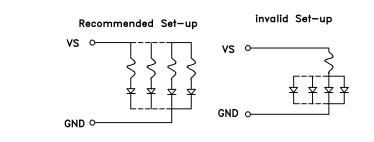
CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

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.



All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes