

Part Number: TC40-11SYKWA

Super Bright Yellow

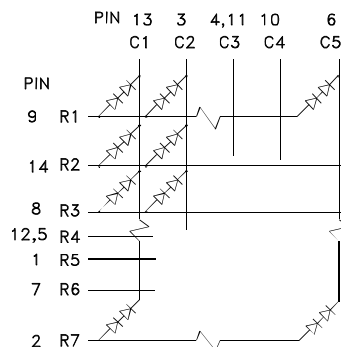
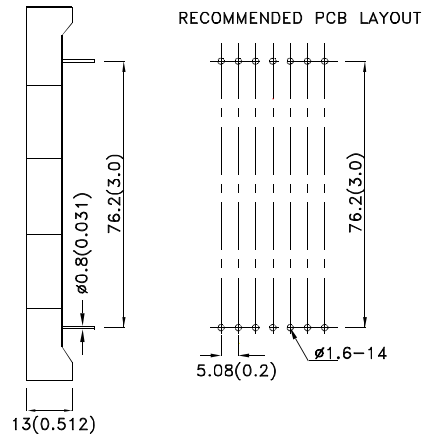
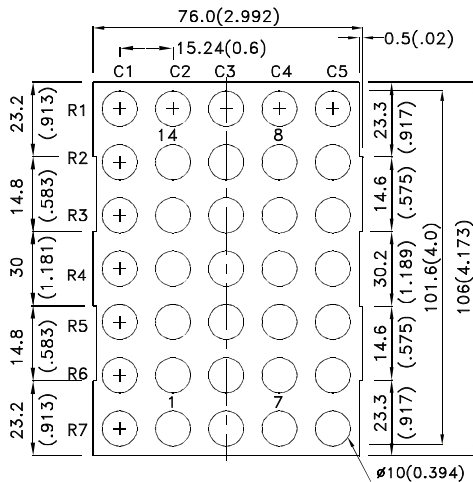
### Features

- 4.0 inch matrix height.
- Dot size 10mm.
- Low current operation.
- High contrast and light output.
- Stackable horizontally.
- Easy mounting on p.c. boards or sockets.
- Multicolor available.
- Mechanically rugged.
- Standard : gray face, white dot.
- RoHS compliant.

### Description

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

### Package Dimensions& Internal Circuit Diagram



#### Notes:

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



## Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
TC40-11SYKWA	Super Bright Yellow (AlGaInP)	WHITE DIFFUSED	75000	302000	Column Cathode

Note:

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

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Super Bright Yellow	590		nm	I <sub>F</sub> =20mA
$\lambda_D$ [1]	Dominant Wavelength	Super Bright Yellow	590		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Yellow	20		nm	I <sub>F</sub> =20mA
C	Capacitance (Per Chip)	Super Bright Yellow	20		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage (Per Dot)	Super Bright Yellow	4.0	5.0	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current (Per Dot)	Super Bright Yellow		10	uA	V <sub>R</sub> =10V

Notes:

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

## Absolute Maximum Ratings at TA=25°C

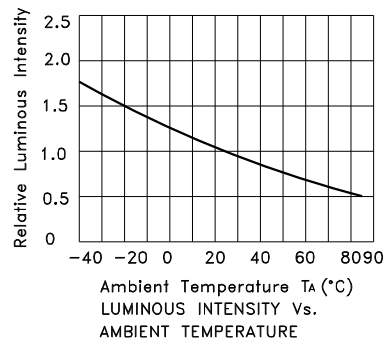
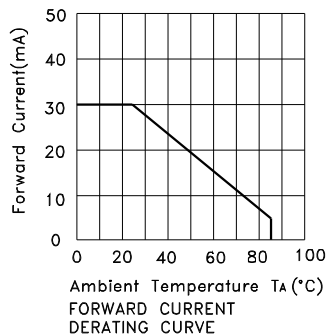
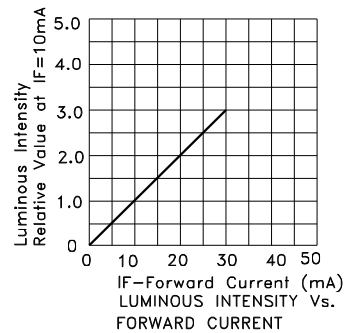
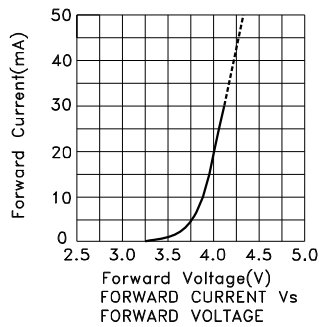
Parameter	Super Bright Yellow	Units
Power dissipation (Per Dot)	150	mW
DC Forward Current (Per Dot)	30	mA
Peak Forward Current [1] (Per Dot)	175	mA
Reverse Voltage (Per Dot)	10	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

Notes:

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

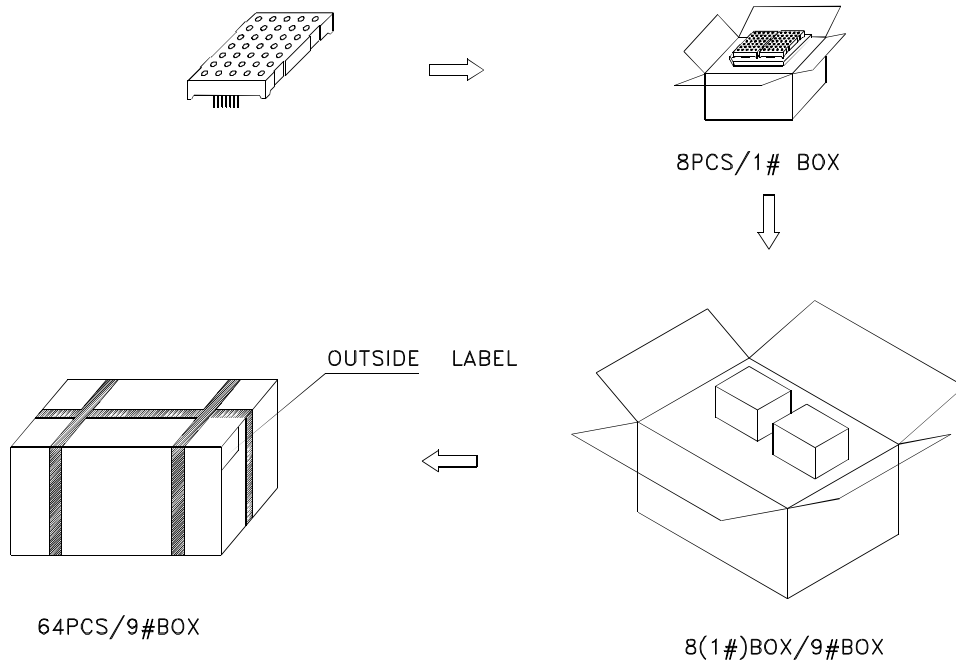


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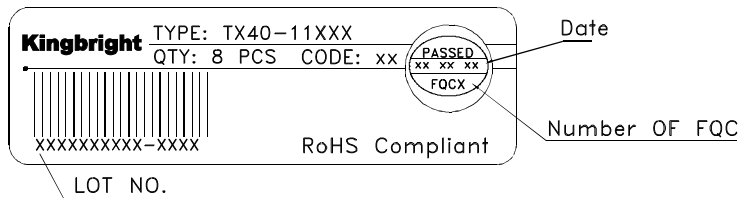


**PACKING & LABEL SPECIFICATIONS**

**TC40-11SYKWA**



Inside LABEL Paste On The 1#BOX



Outside LABEL Paste On The Box

