

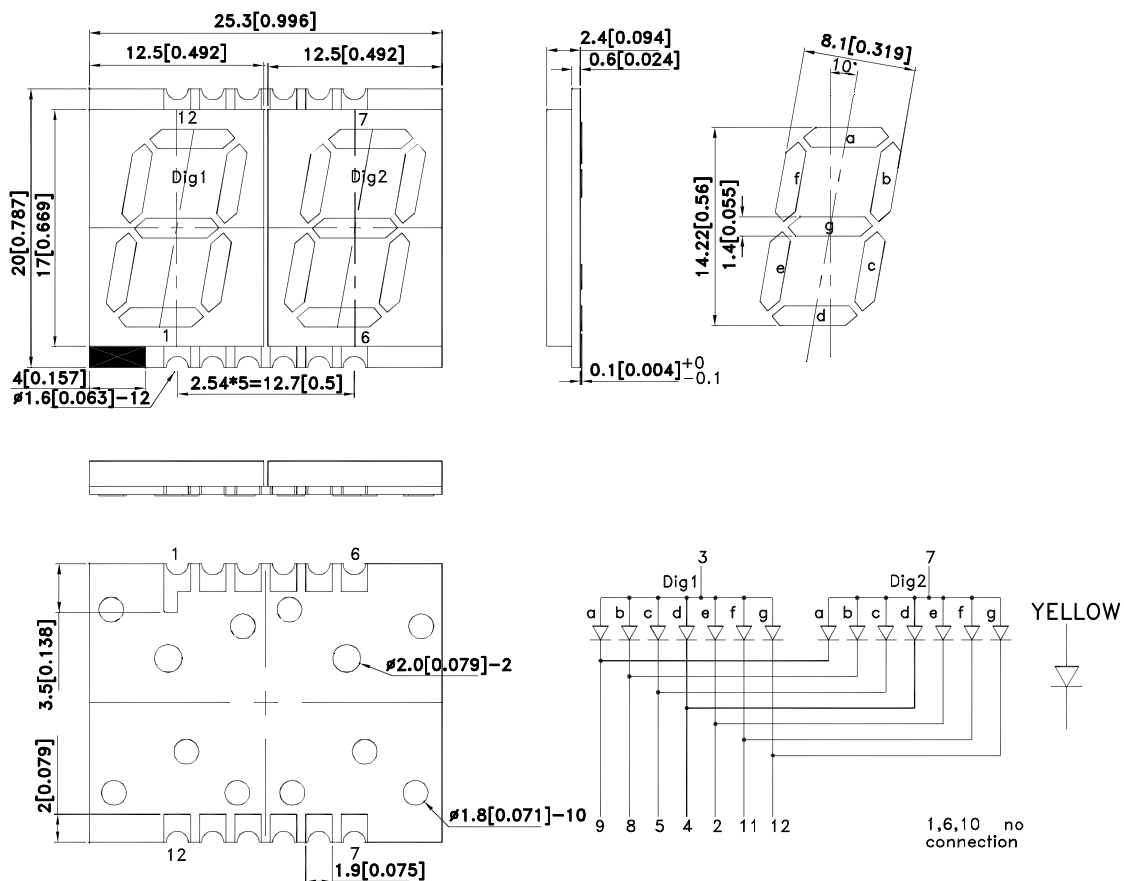
Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- 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.
3. The gap between the reflector and PCB shall not exceed 0.25mm.



Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
ACDA56-51SYKWA	Super Bright Yellow (AlGaInP)	White Diffused	52000	117000	Common Anode

Note:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Code.	Min.	Typ.	Max.	Units	Test Condi- tions
λ_{peak}	Peak Wavelength	Super Bright Yellow			590		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Yellow	3	586		588	nm	I _F =20mA
			4	588		590		
			5	590		592		
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Yellow			20		nm	I _F =20mA
C	Capacitance	Super Bright Yellow			20		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Yellow			2.0	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Yellow				10	uA	V _R =5V

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

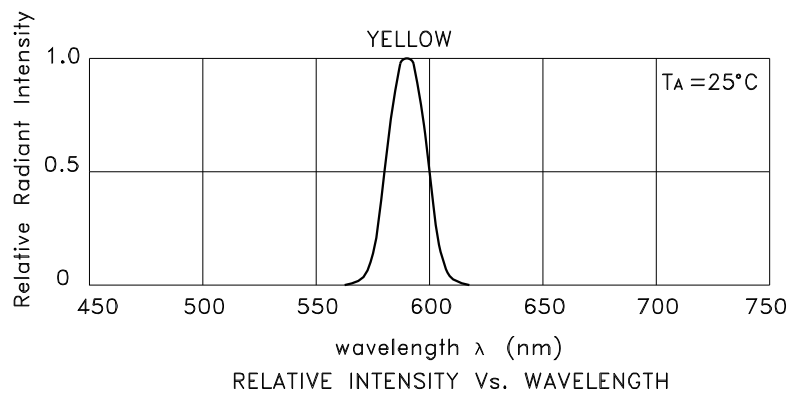
3.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	175	mA
Reverse Voltage	5	V
Electrostatic Discharge Threshold (HBM)	3000	V
Operating / Storage Temperature	-40°C To +85°C	

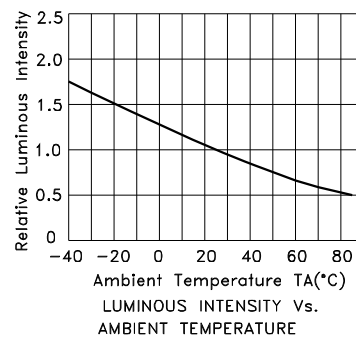
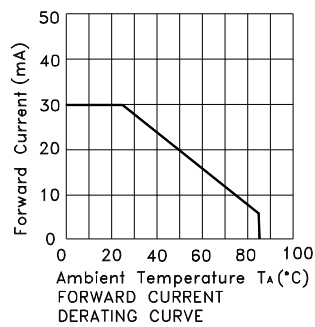
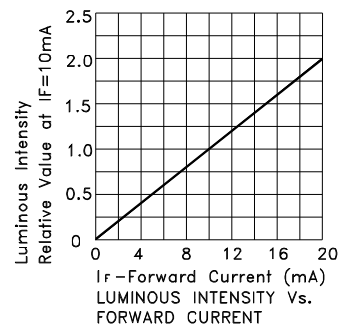
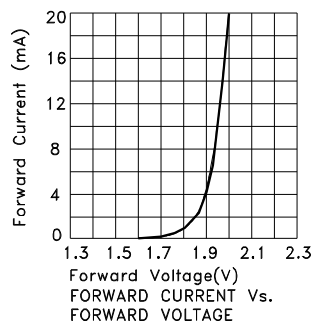
Note:

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



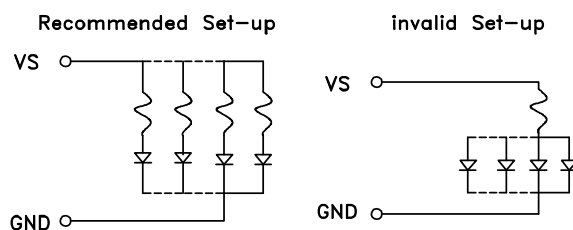
Super Bright Yellow

ACDA56-51SYKWA



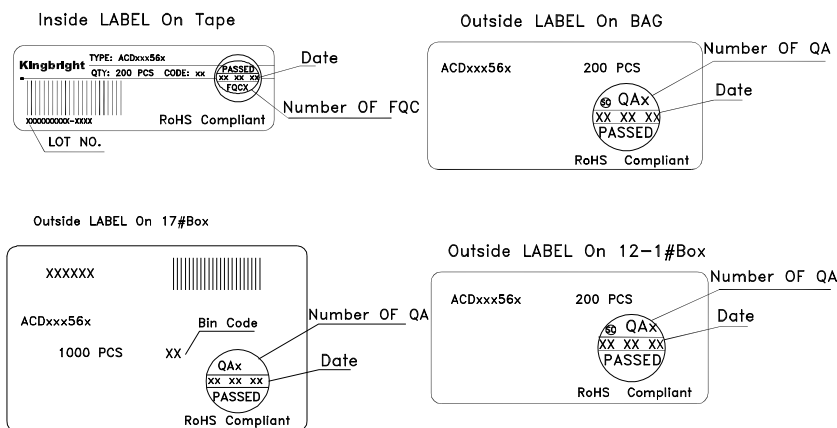
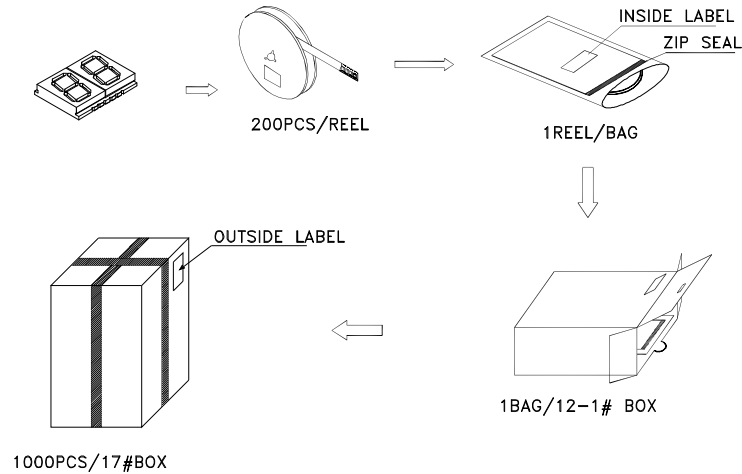
CIRCUIT DESIGN NOTES

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.



PACKING & LABEL SPECIFICATIONS

ACDA56-51SYKWA



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