SURFACE MOUNT DISPLAY

GaAs substrate) light emitting diode chip.

Description

Part Number: ACDA56-51SYKWA Super Bright Yellow

The Super Bright Yellow device is made with AlGaInP (on

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.

Package Dimensions& Internal Circuit Diagram

25.3[0.996] 2.4[0.094] 8.1[0.319] 12.5[0.492] 12.5[0.492] 0.6[0.024] 10 D/g2 Djg 1 1.22[0.56] 1.4[0.055] 20[0.787] 17[0.669] **0.1[0.004]**⁺⁰_{-0.1} 4[0.157] ø1.6[0.063] 2.54*5=12.7[0.5] Dig 1 Dig2 d d YELLOW ь с b с f g a е g е а 3.5[0.138] **≠2.0[0.079]**−2 2[0.079] \bigcirc (С (ø1.8[0.071]–10 1,6,10 no 12 ģ 8 5 connection 12 7 1.9[0.075] Notes: 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. The gap between the reflector and PCB shall not exceed 0.25mm.

SPEC NO: DSAM4694 APPROVED: WYNEC REV NO: V.7 CHECKED: Joe Lee DATE: JAN/12/2015 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1352000605

Selection Guide									
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
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.	Тур.	Max.	Units	Test Condi- tions
λpeak	Peak Wavelength	Super Bright Yellow			590		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	3	586		588	nm	IF=20mA
			4	588		590		
			5	590		592		
Δλ1/2	Spectral Line Half-width	Super Bright Yellow			20		nm	IF=20mA
С	Capacitance	Super Bright Yellow			20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow			2.0	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Yellow				10	uA	VR=5V

Notes:

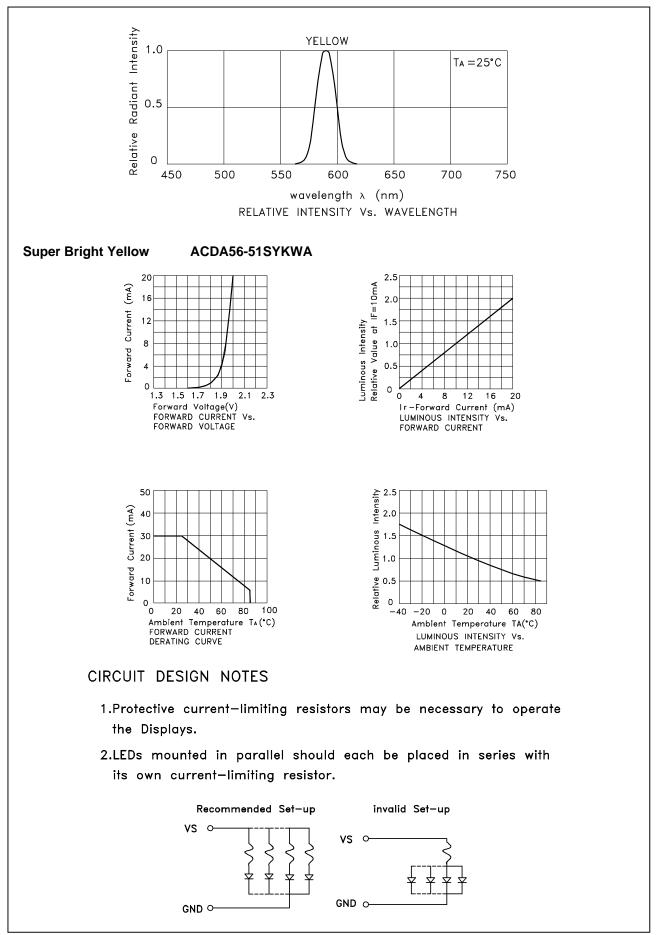
1.Wavelength: +/-1nm.
2.Forward Voltage: +/-0.1V.
3.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

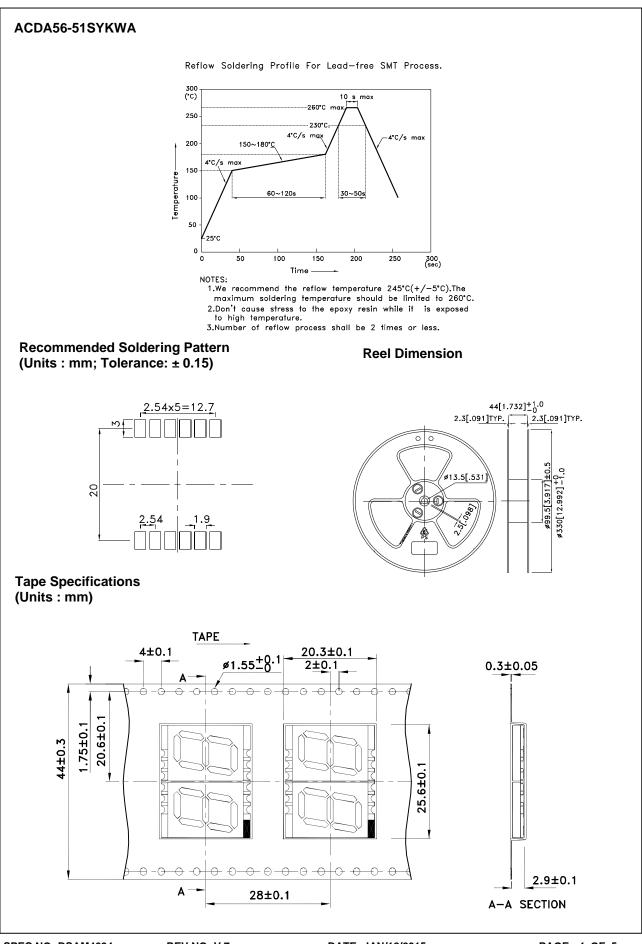
Parameter	Super Bright Yellow	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	175	mA		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold (HBM)	3000	V		
Operating / Storage Temperature	-40°C To +85°C			

Note:

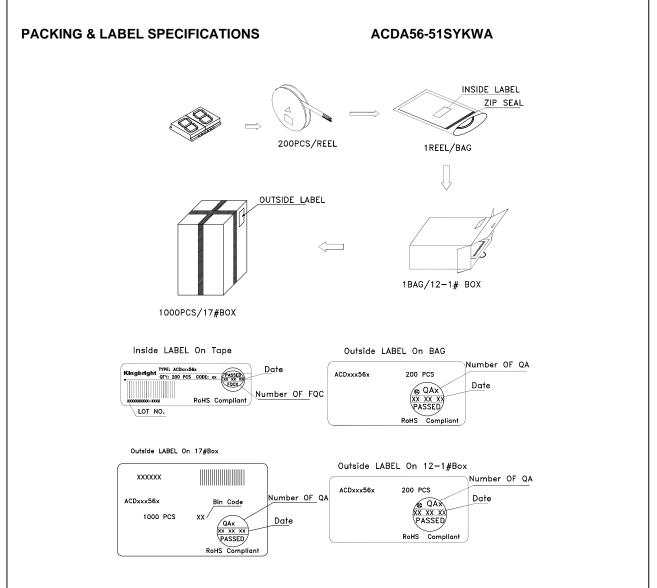
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



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