### SURFACE MOUNT DISPLAY

Part Number: ACDA02-41EWA-F01

High Efficiency Red

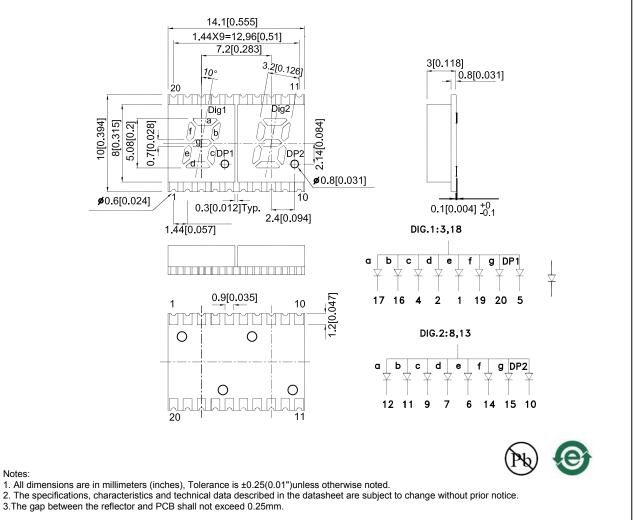
#### Features

- 0.2 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 High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

#### Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAG0576 APPROVED: Wynec REV NO: V.6A CHECKED: Joe Lee DATE: DEC/29/2015 DRAWN: F.T.Liu PAGE: 1 OF 5 ERP: 1352000355

Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
ACDA02-41EWA-F01	High Efficiency Red (GaAsP/GaP)	White Diffused	1400	3200	Common Anode, Rt.				
		White Difused	*360	*950	Hand Decimal.				

Notes:

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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=10mA
λD [1]	Dominant Wavelength	High Efficiency Red	617		nm	I⊧=10mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=10mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	1.9	2.5	V	IF=10mA
IR	Reverse Current	High Efficiency Red		10	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

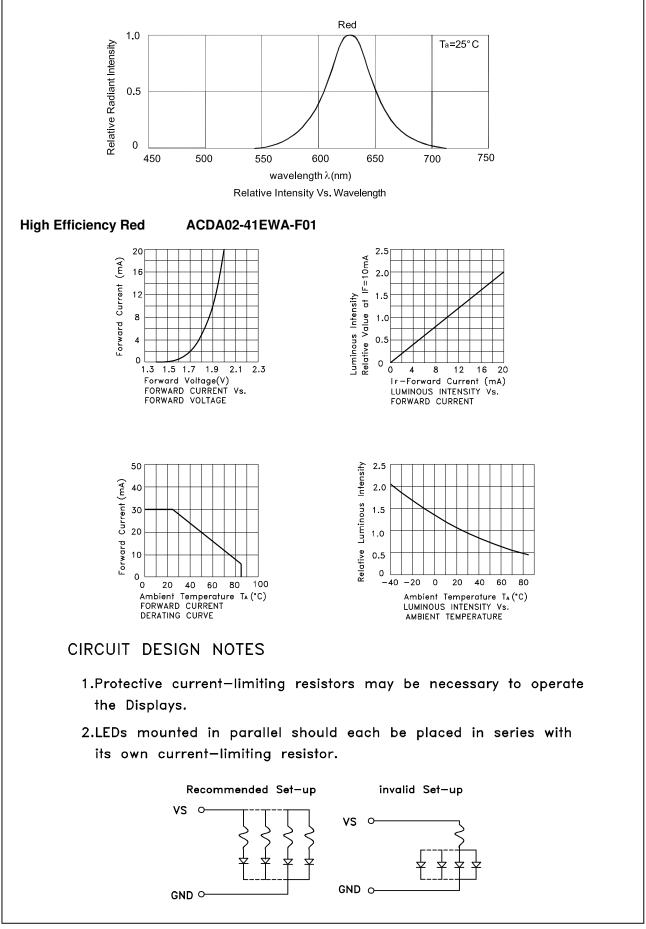
2. Forward Voltage: +/-0.1V.

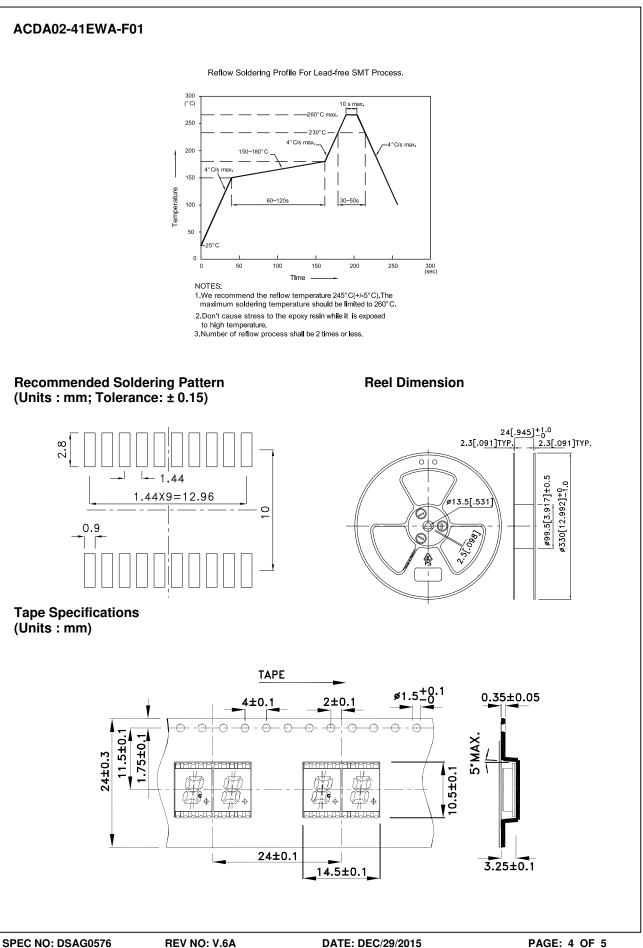
Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

#### Absolute Maximum Ratings at TA=25°C

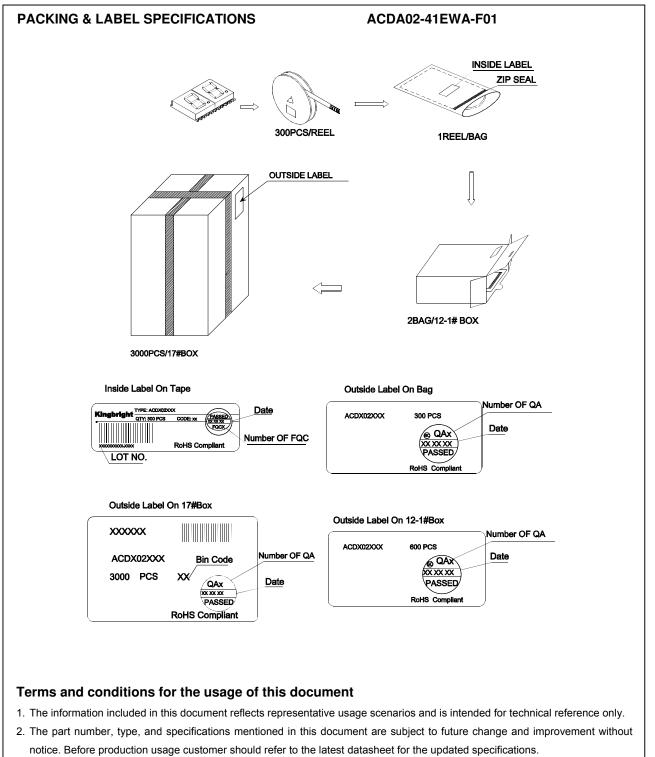
Parameter	Values	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			

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





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- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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