

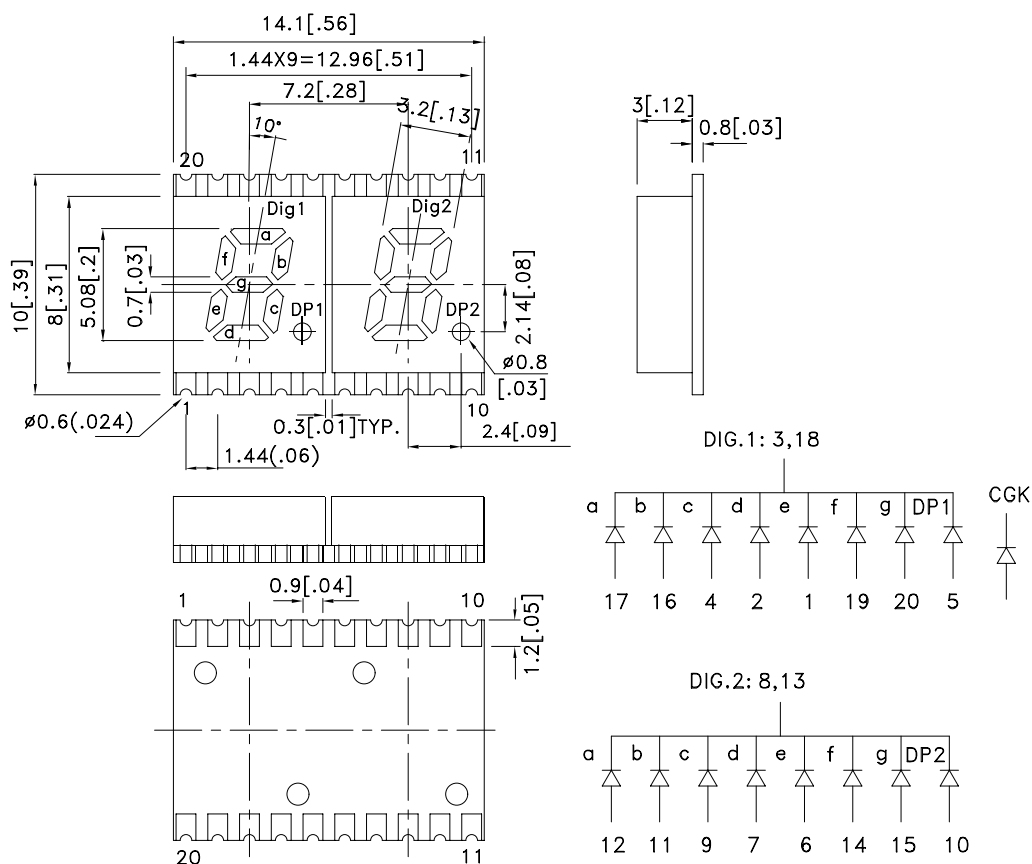
Features

- 0.2 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- PACKAGE :300PCS / REEL.
- GRAY FACE, WHITE SEGMENT.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

Description

The Green source color devices are made with InGaAlP on GaAs substrate Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram



1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
2. Specifications are subject to change without 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.	
ACDC02-41CGKWA-F01	Green (InGaAlP)	WHITE DIFFUSED	4700	26000	Common Cathode, Rt. Hand Decimal.

Note:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Green	574		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Green	570		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green	20		nm	I _F =20mA
C	Capacitance	Green	15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Green	2.1	2.5	V	I _F =20mA
I _R	Reverse Current	Green		10	uA	V _R =5V

Notes:

1.Wavelength: +/-1nm.

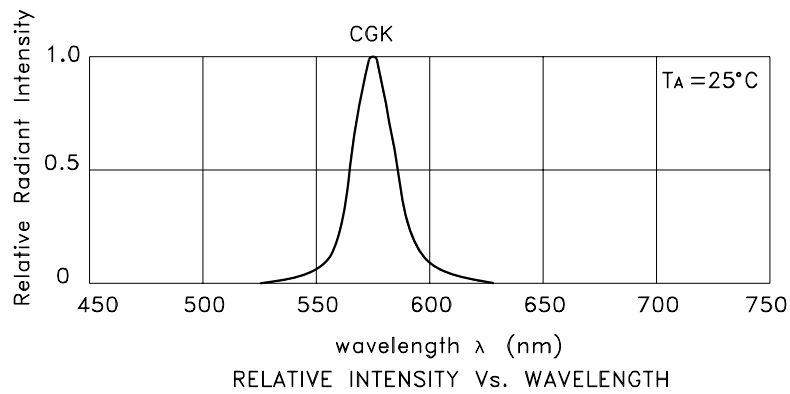
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

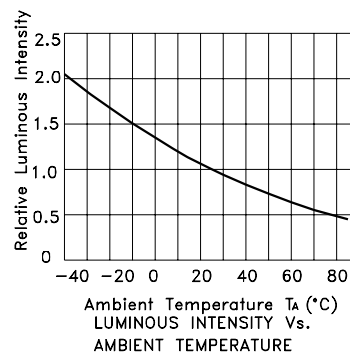
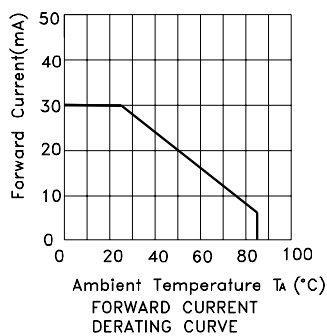
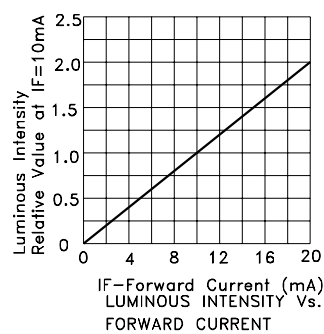
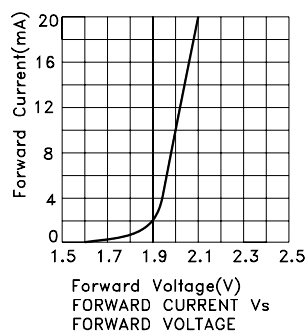
Note:

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



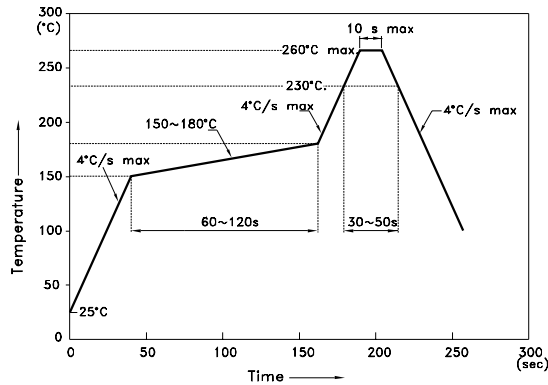
Green

ACDC02-41CGKWA-F01



ACDC02-41CGKWA-F01

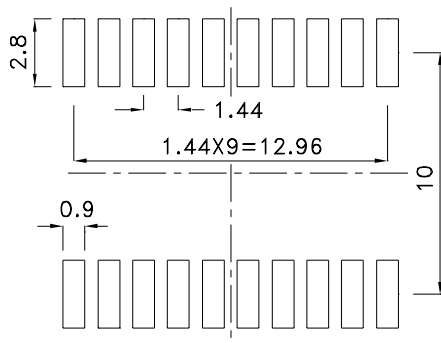
Reflow Soldering Profile For Lead-free SMT Process.



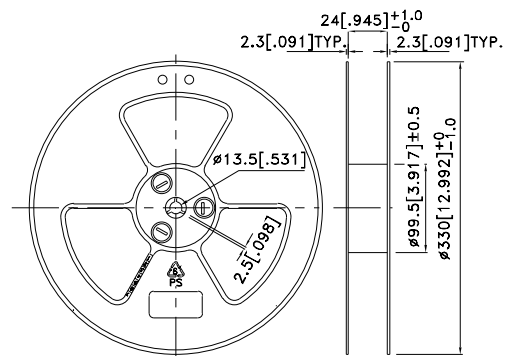
NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

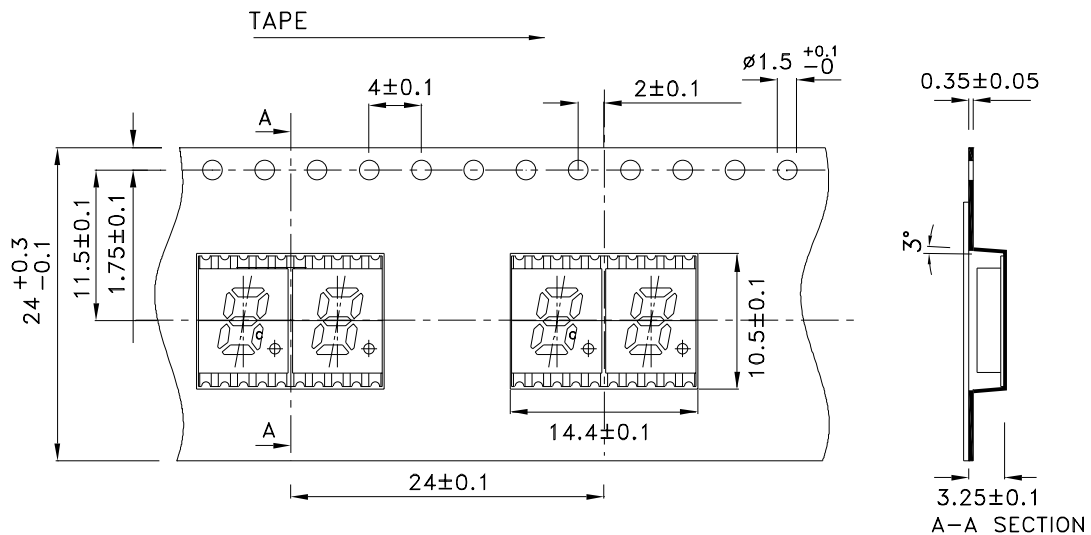
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.15)



Reel Dimension

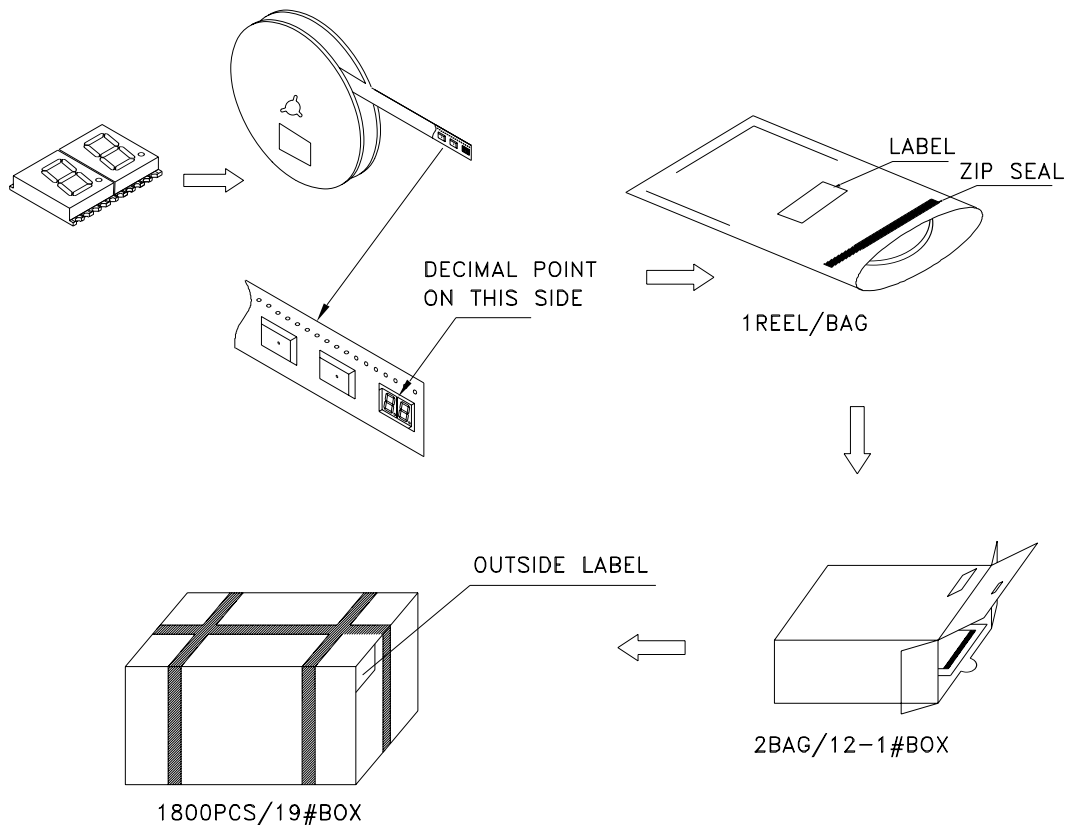


Tape Specifications (Units : mm)



PACKING & LABEL SPECIFICATIONS

ACDC02-41CGKWA-F01



Inside LABEL Paste On The Tape-pipe

TYPE: ACDX02-41xxx	DATE
Kingbright	300 PCS
QTY: 300 PCS	CODE: xx
XXXXXXXXXX-XXXX	PASSED
LOT NO.	xx xx xx
	FQC
	RoHs Compliant

Outside LABEL Paste On The BAG

ACDX02-41xxx	300 PCS	Number OF QA
	DATE	
	30 QA	
	xx xx xx	
	PASSED	
	RoHs Compliant	

Outside LABEL Paste On The 19#Box

BOX Number	xxxx	XX XX
ACDX02-41xxx	1800	x
	Number OF QA	
	DATE	
	30 QA	
	xx xx xx	
	PASSED	
	RoHs Compliant	

Outside LABEL Paste On The 12-1#Box

ACDX02-41xxx	600 PCS	Number OF QA
	DATE	
	30 QA	
	xx xx xx	
	PASSED	
	RoHs Compliant	