

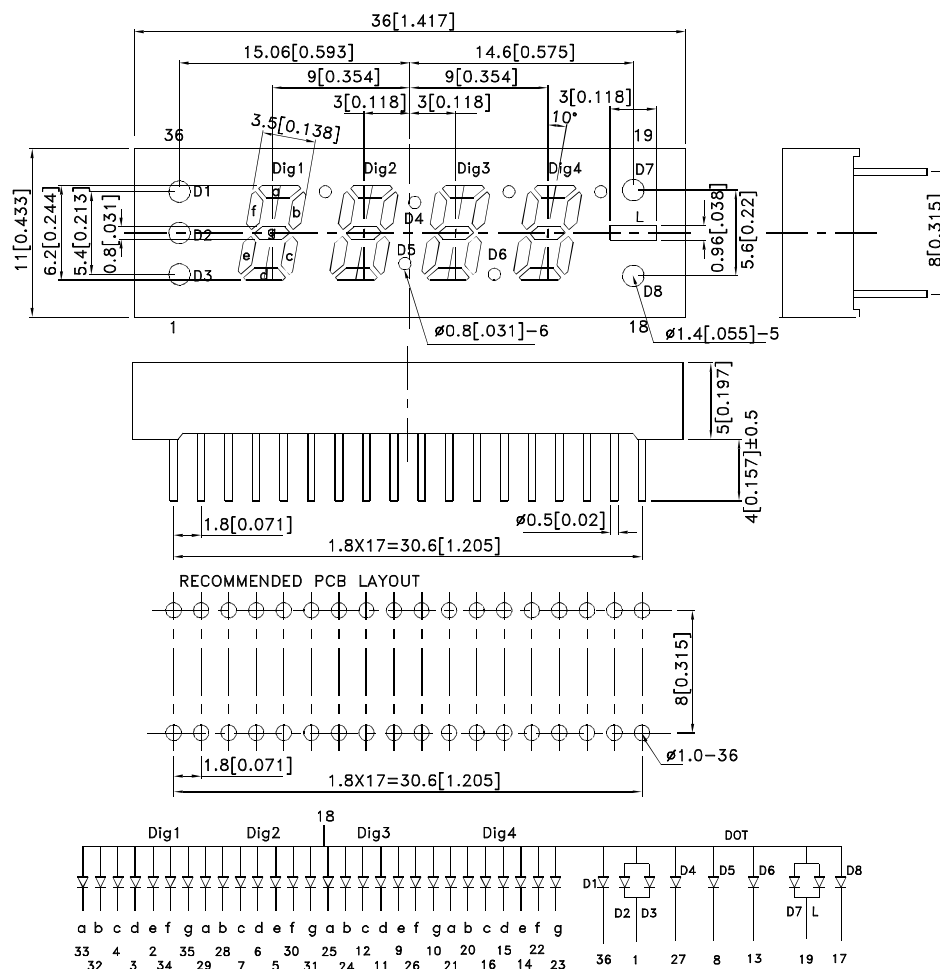
### Features

- 0.25 inch digit height
- Low current operation.
- Excellent character appearance.
- Easy mounting on P.C. boards or sockets.
- Categorized for luminous intensity.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

### Description

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

### 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]<br>@ 10mA |       | Description  |
|--------------|-----------------|----------------|------------------------|-------|--------------|
|              |                 |                | Min.                   | Typ.  |              |
| CA25-11CGKWA | Green (AlGaInP) | WHITE DIFFUSED | 12000                  | 34000 | Common Anode |

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          |                                                   | Green  | 574  |      | nm    | I <sub>F</sub> =20mA      |
| $\lambda$ D [1]     | Dominant Wavelength      |                                                   | Green  | 570  |      | nm    | I <sub>F</sub> =20mA      |
| $\Delta\lambda$ 1/2 | Spectral Line Half-width |                                                   | Green  | 20   |      | nm    | I <sub>F</sub> =20mA      |
| C                   | Capacitance              |                                                   | Green  | 15   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub> [2]  | Forward Voltage          | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | Green  | 2.1  | 2.5  | V     | I <sub>F</sub> =20mA      |
|                     |                          | D2,D3,D7,L                                        |        |      |      |       |                           |
| I <sub>R</sub>      | Reverse Current          | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | Green  |      | 10   | uA    | V <sub>R</sub> = 5V       |
|                     |                          | D2,D3,D7,L                                        |        |      | 20   |       |                           |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

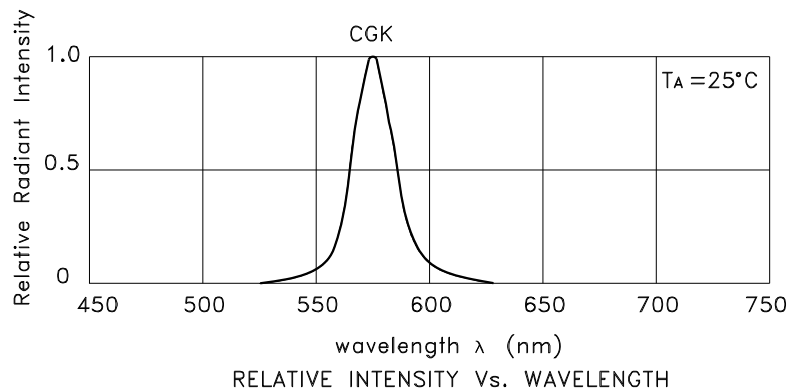
## Absolute Maximum Ratings at TA=25°C

| Parameter                     |                                                   | Green                 | Units |
|-------------------------------|---------------------------------------------------|-----------------------|-------|
| Power dissipation             | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | 75                    | mW    |
|                               | D2,D3,D7,L                                        | 150                   |       |
| DC Forward Current            | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | 30                    | mA    |
|                               | D2,D3,D7,L                                        | 60                    |       |
| Reverse Voltage               | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | 5                     | V     |
|                               | D2,D3,D7,L                                        |                       |       |
| Peak Forward Current [1]      | Dig1'8,'Dig2'8',Dig3'8',Dig4'8'<br>D1,D4,D5,D6,D8 | 150                   | mA    |
|                               | D2,D3,D7,L                                        | 300                   |       |
| Operating/Storage Temperature |                                                   | -40°C To +85°C        |       |
| Lead Solder Temperature [2]   |                                                   | 260°C For 3~5 Seconds |       |

Notes:

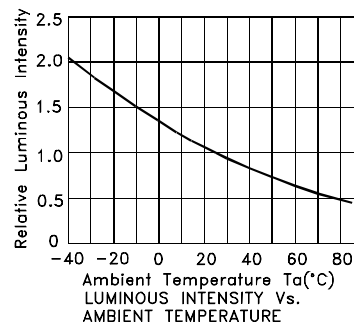
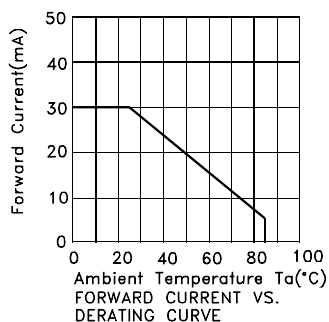
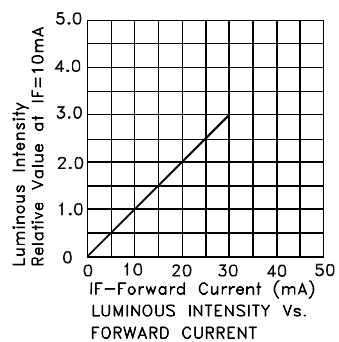
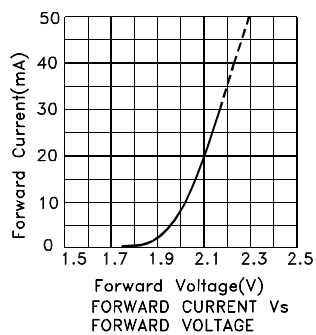
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

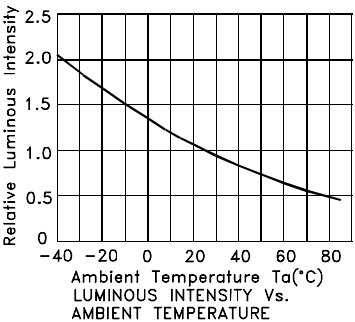
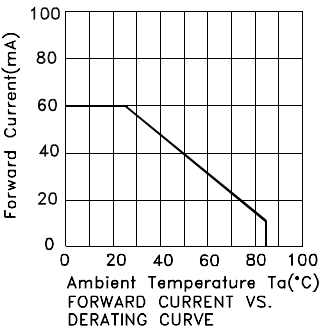
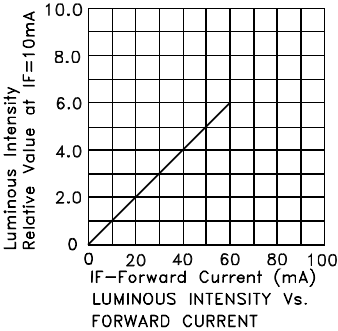
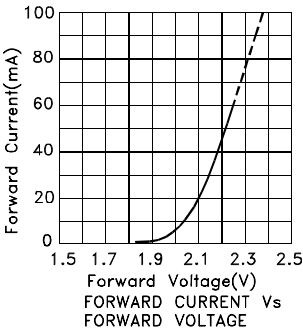


Green

CA25-11CGKWA

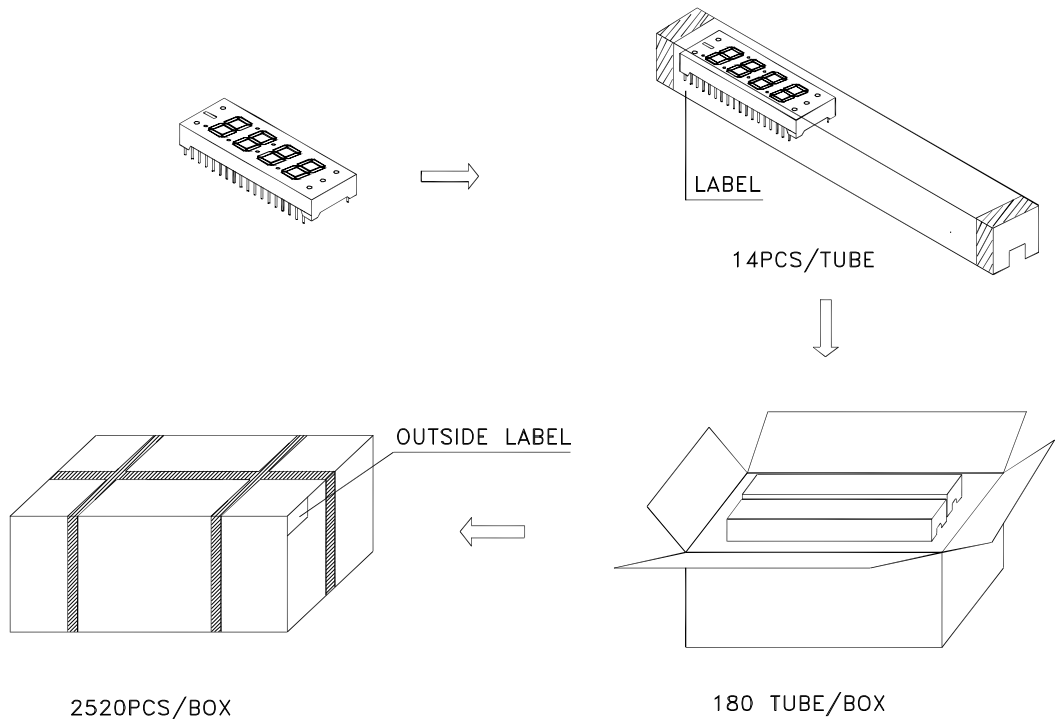


## Green

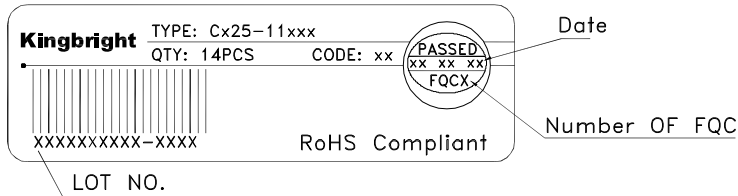


## PACKING & LABEL SPECIFICATIONS

CA25-11CGKWA



Inside Label Paste On The IC-tube



Outside Label Paste On The Box

