

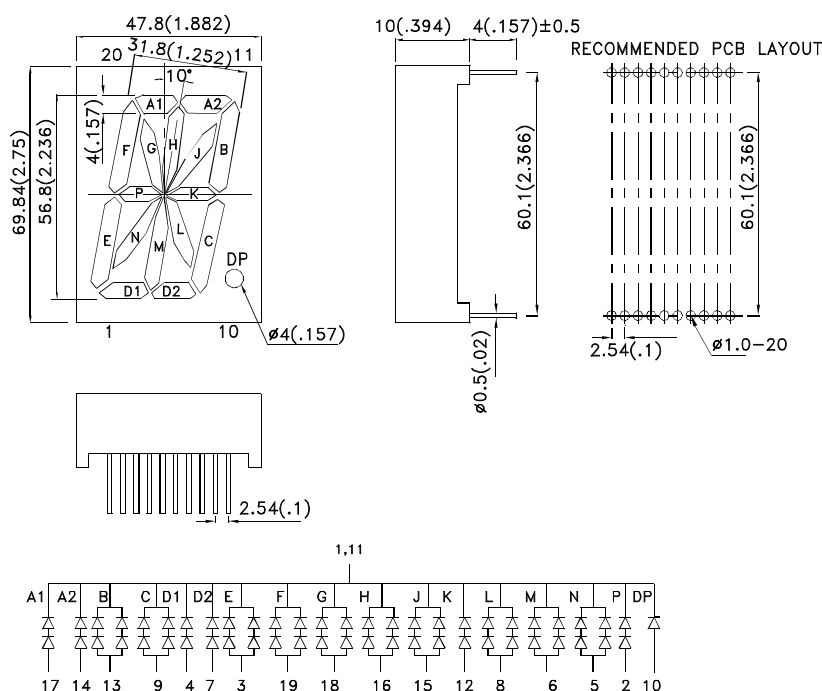
### Features

- 2.3 inch character height.
- Low current operation.
- High contrast and light output.
- Easy mounting on P.C. boards or sockets.
- 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.  |                                   |
| PSC23-11CGKWA | Green (AlGaInP) | White Diffused | 9000                   | 17000 | 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                                                     |
|---------------------|--------------------------|---------------------|--------|------|------|-------|---------------------------------------------------------------------|
| $\lambda$ 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          | A1,A2,D1,D2,P,K     | Green  | 4.2  | 5.0  | V     | I <sub>F</sub> =20mA                                                |
|                     |                          | B,C,E,F,G,H,J,L,M,N |        |      |      |       |                                                                     |
|                     |                          | DP                  |        | 2.1  | 2.5  |       |                                                                     |
| I <sub>R</sub>      | Reverse Current          | A1,A2,D1,D2,P,K     | Green  |      | 10   | uA    | V <sub>R</sub> = 10V<br>V <sub>R</sub> = 10V<br>V <sub>R</sub> = 5V |
|                     |                          | B,C,E,F,G,H,J,L,M,N |        |      | 20   |       |                                                                     |
|                     |                          | DP                  |        |      | 10   |       |                                                                     |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

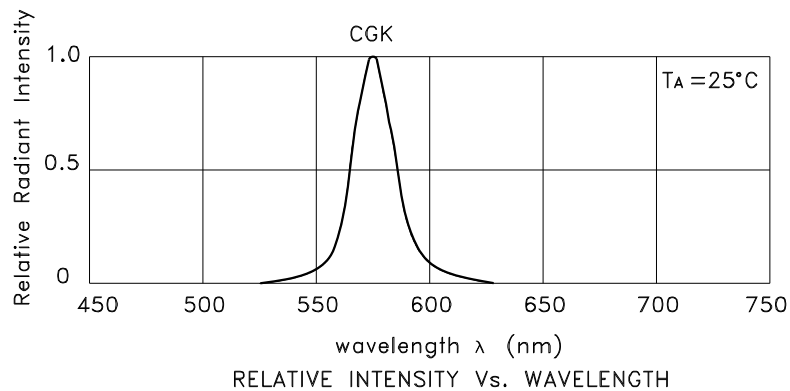
## Absolute Maximum Ratings at TA=25°C

| Parameter                       |                     | Green                 | Units |
|---------------------------------|---------------------|-----------------------|-------|
| Power dissipation               | A1,A2,D1,D2,P,K     | 150                   | mW    |
|                                 | B,C,E,F,G,H,J,L,M,N | 300                   |       |
|                                 | DP                  | 75                    |       |
| DC Forward Current              | A1,A2,D1,D2,P,K     | 30                    | mA    |
|                                 | B,C,E,F,G,H,J,L,M,N | 60                    |       |
|                                 | DP                  | 30                    |       |
| Peak Forward Current [1]        | A1,A2,D1,D2,P,K     | 150                   | mA    |
|                                 | B,C,E,F,G,H,J,L,M,N | 300                   |       |
|                                 | DP                  | 150                   |       |
| Reverse Voltage                 | A1,A2,D1,D2,P,K     | 10                    | V     |
|                                 | B,C,E,F,G,H,J,L,M,N | 10                    |       |
|                                 | DP                  | 5                     |       |
| Operating / Storage Temperature |                     | -40°C To +85°C        |       |
| Lead Solder Temperature [2]     |                     | 260°C For 3-5 Seconds |       |

Notes:

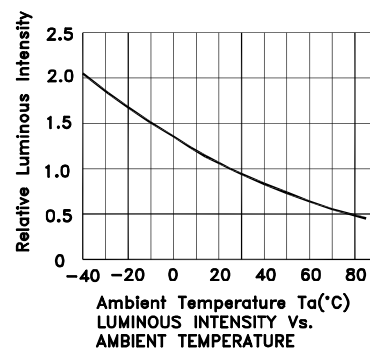
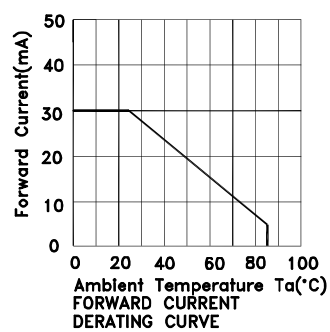
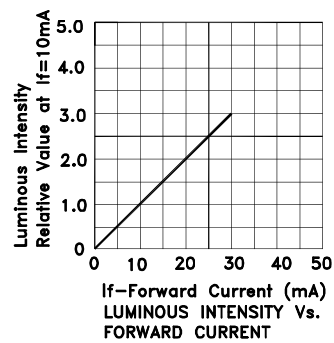
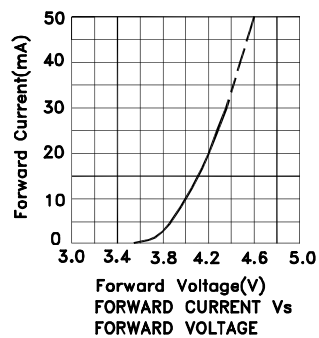
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



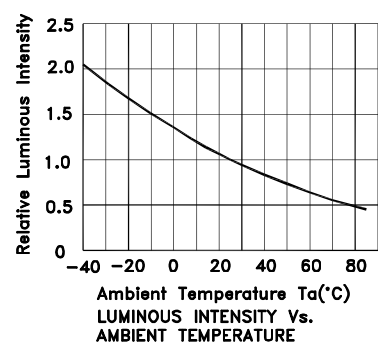
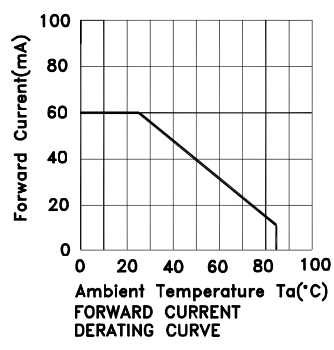
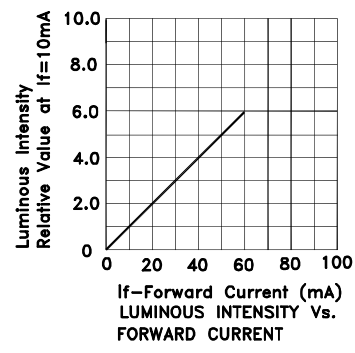
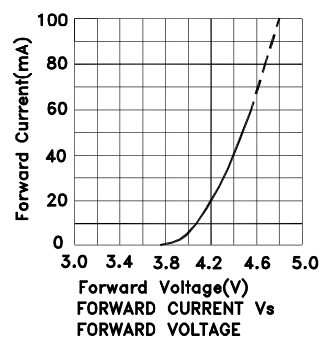
Green

PSC23-11CGKWA



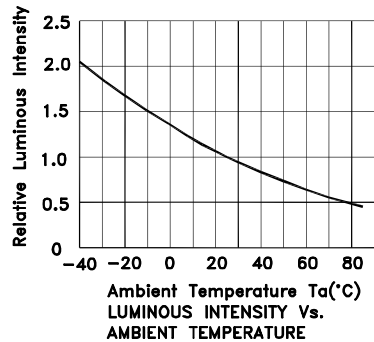
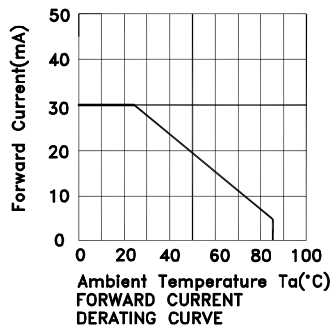
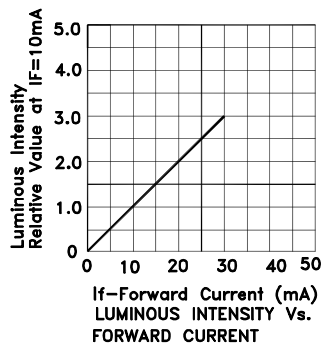
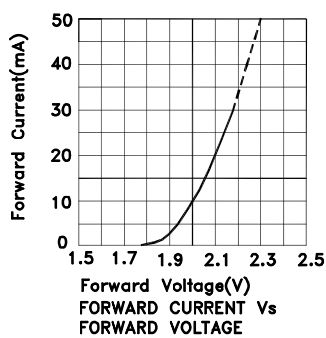
Note:the curves are on the segment a1,a2,d1,d2,p,k.

## Green



Note: the curves are on the segment b,c,e,f,g,h,j,l,m,n.

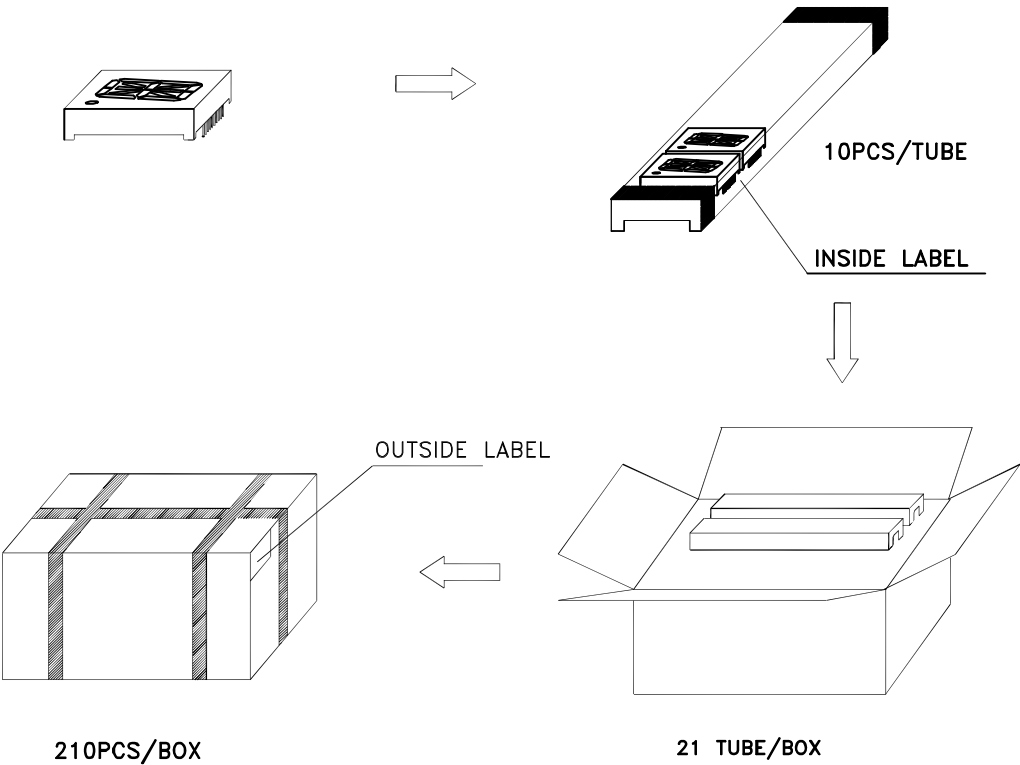
Green



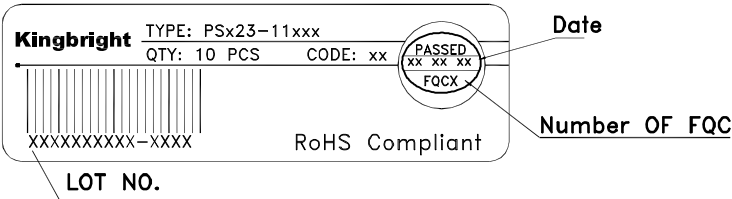
Note:the curves are on the DP.

## PACKING & LABEL SPECIFICATIONS

PSC23-11CGKWA



### Inside Label On IC-tube



### Outside Label On Box

