

Part Number: PSA23-11GWA

GREEN

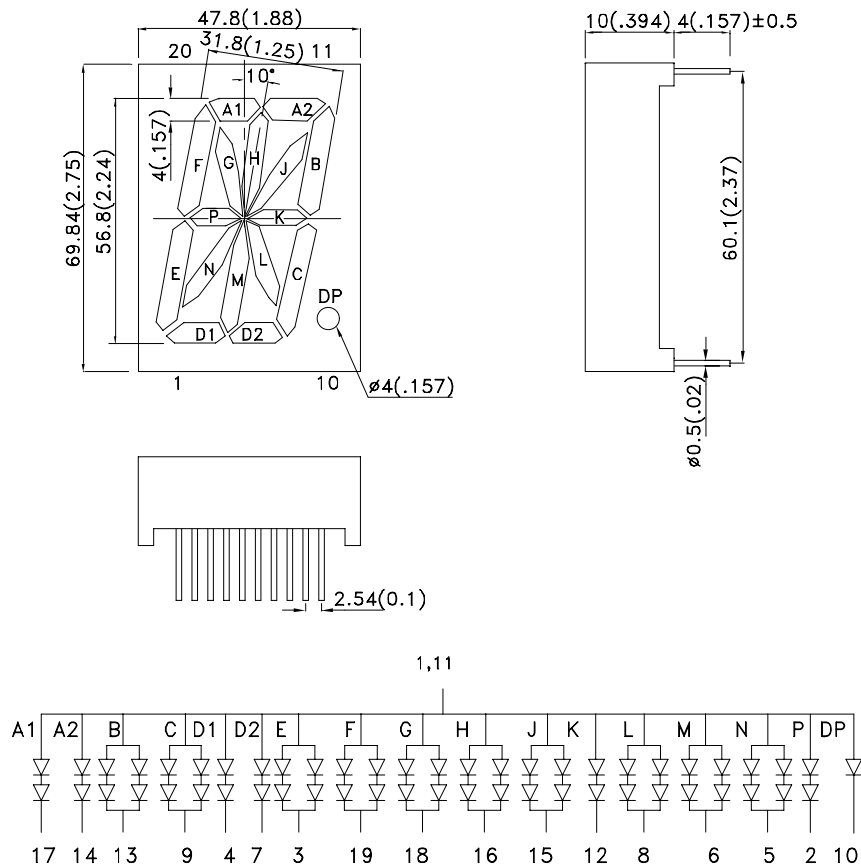
Features

- 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 Gallium Phosphide Green 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. Specifications are subject to change without notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (ucd) [1] @ 10mA | | Description |
|-------------|-------------|----------------|------------------------|-------|---------------------------------|
| | | | Min. | Typ. | |
| PSA23-11GWA | GREEN (GaP) | WHITE DIFFUSED | 1900 | 10500 | Common Anode, 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 | 565 | | nm | IF=20mA | |
| $\lambda_D[1]$ | Dominant Wavelength | Green | 568 | | nm | IF=20mA | |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Green | 30 | | nm | IF=20mA | |
| C | Capacitance | Green | 15 | | pF | VF=0V;f=1MHz | |
| VF[2] | Forward Voltage | A1,A2,D1,D2,P,K | Green | 4.4 | 5.0 | V | IF=20mA |
| | | B,C,E,F,G,H,J,L,M,N | | | | | |
| | | DP | | 2.2 | 2.5 | | |
| IR | Reverse Current | A1,A2,D1,D2,P,K | Green | | 10 20 10 | uA | VR = 10V VR = 10V VR = 5V |
| | | B,C,E,F,G,H,J,L,M,N | | | | | |
| | | DP | | | | | |

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

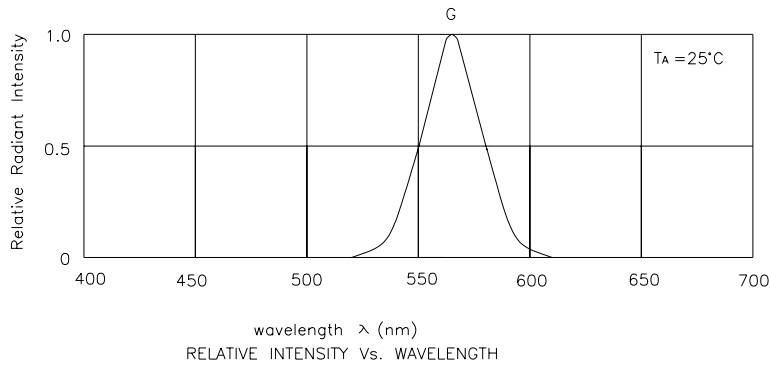
Absolute Maximum Ratings at TA=25°C

| Parameter | Green | Units |
|---------------------------------|-----------------------|-------|
| Power dissipation | A1,A2,D1,D2,P,K | 125 |
| | B,C,E,F,G,H,J,L,M,N | 250 |
| | DP | 62.5 |
| DC Forward Current | A1,A2,D1,D2,P,K | 25 |
| | B,C,E,F,G,H,J,L,M,N | 50 |
| | DP | 25 |
| Peak Forward Current [1] | A1,A2,D1,D2,P,K | 140 |
| | B,C,E,F,G,H,J,L,M,N | 280 |
| | DP | 140 |
| Reverse Voltage | A1,A2,D1,D2,P,K | 10 |
| | 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:

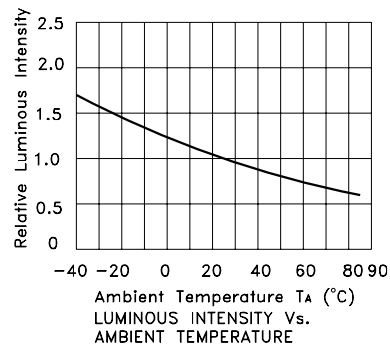
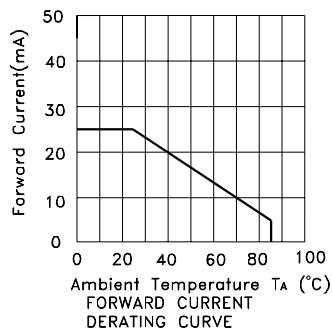
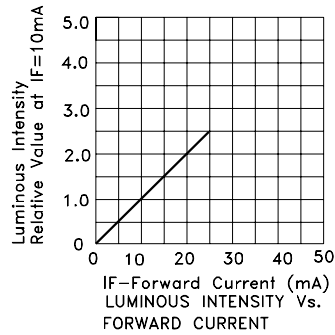
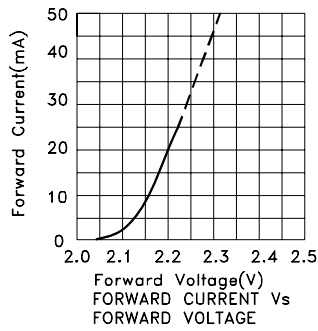
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

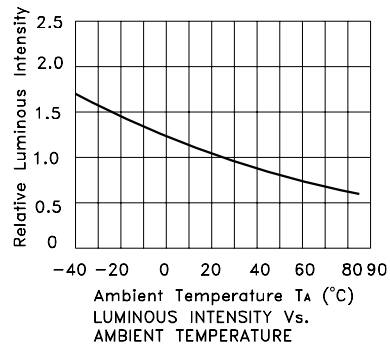
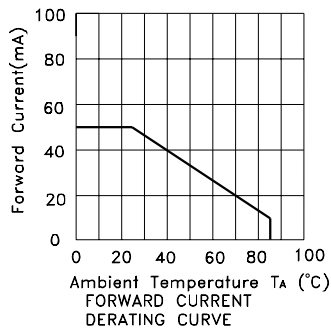
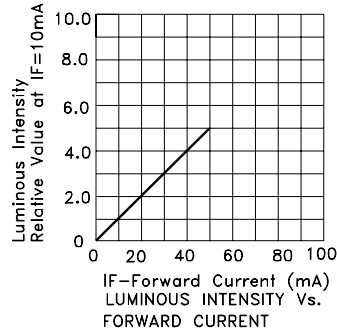
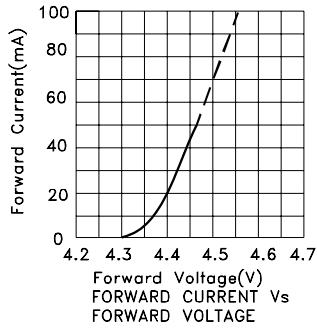


Green

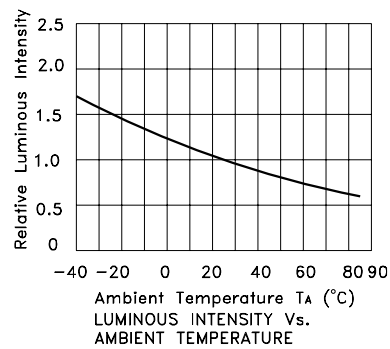
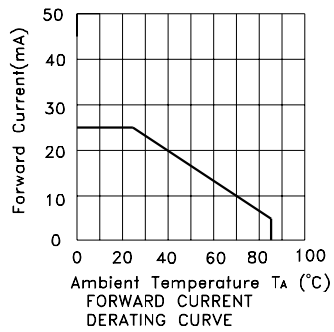
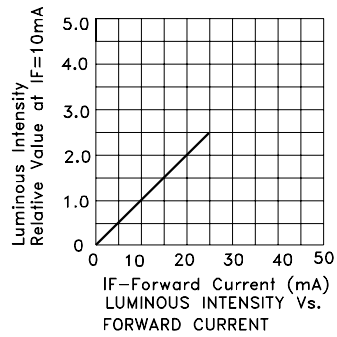
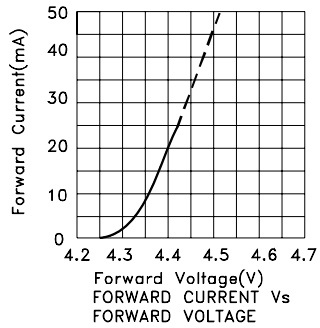
PSA23-11GWA



Note:the curves are on the DP.



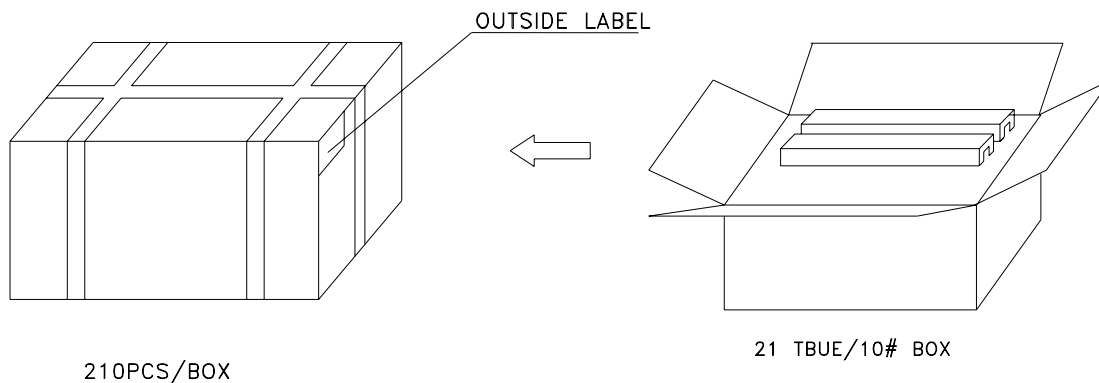
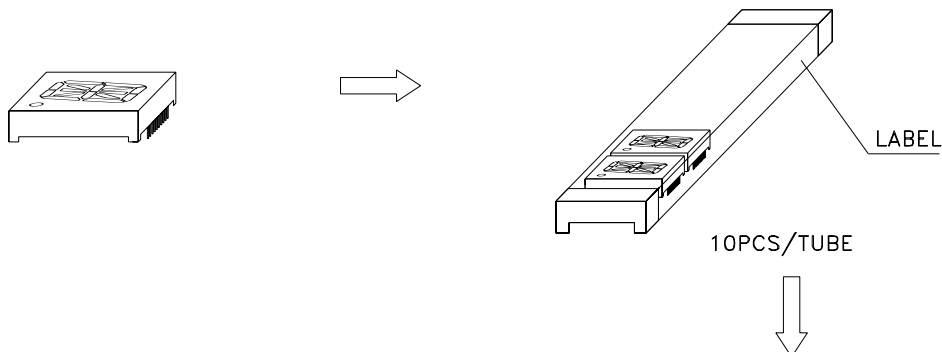
Note:the curves are on the segment b,c,e,f,g,h,j,l,m,n.



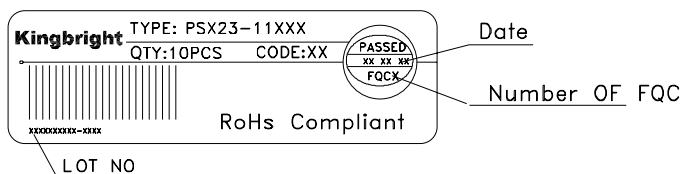
Note:the curves are on the segment a1,a2,d1,d2,p,k.

PACKING & LABEL SPECIFICATIONS

PSA23-11GWA



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

