

AA1114/2YC/CC

YELLOW

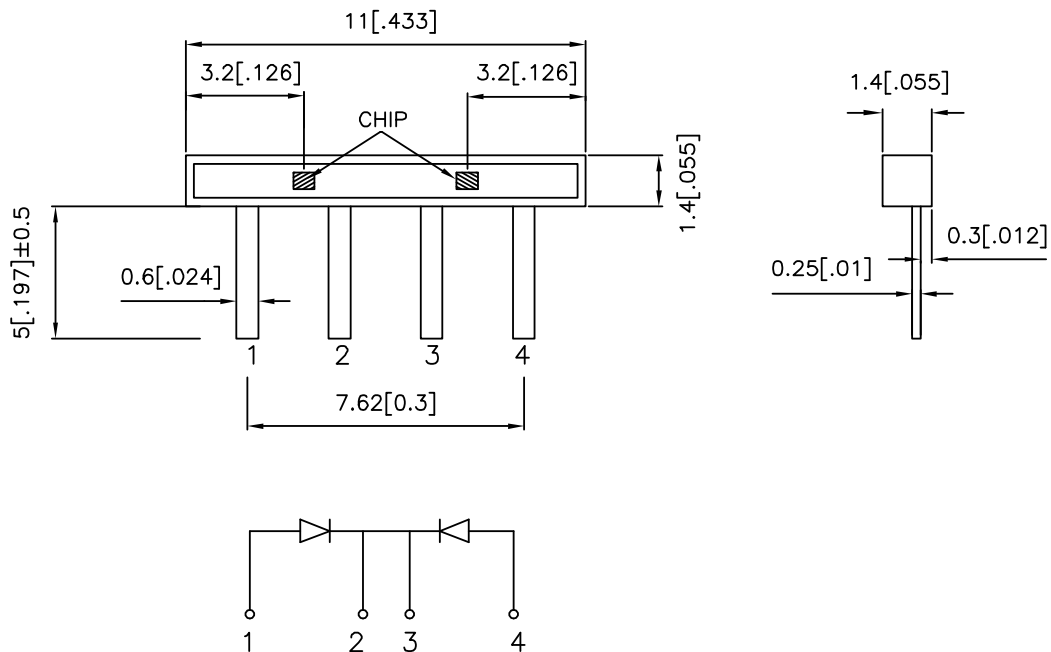
Features

- LOW POWER CONSUMPTION.
- IDEAL FOR BACKLIGHTING.
- RoHS COMPLIANT.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|---------------|--------------------|-------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| AA1114/2YC/CC | YELLOW (GaAsP/GaP) | WATER CLEAR | 4 | 10 | 120° |

Note:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

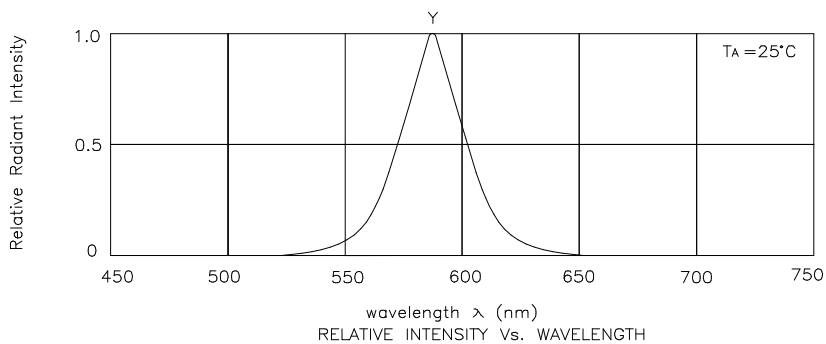
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|----------------------------|
| λ_{peak} | Peak Wavelength | Yellow | 590 | | nm | I _F =20mA |
| λ_D | Dominant Wavelength | Yellow | 588 | | nm | I _F =20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Yellow | 35 | | nm | I _F =20mA |
| C | Capacitance | Yellow | 20 | | pF | V _F =0V; f=1MHz |
| V _F | Forward Voltage | Yellow | 2.1 | 2.5 | V | I _F =20mA |
| I _R | Reverse Current | Yellow | | 10 | uA | V _R = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Yellow | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 140 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

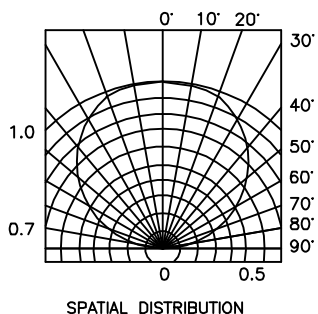
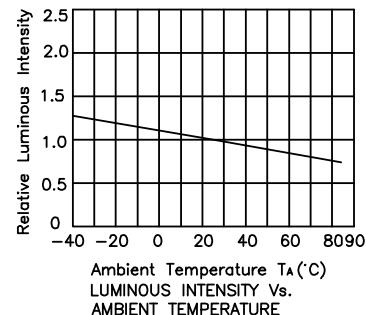
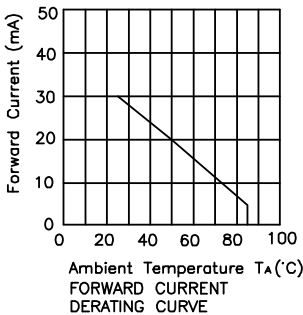
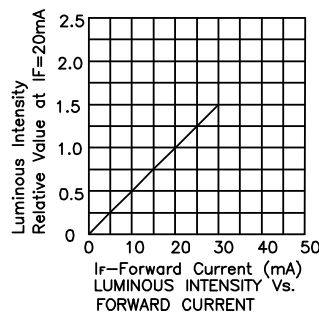
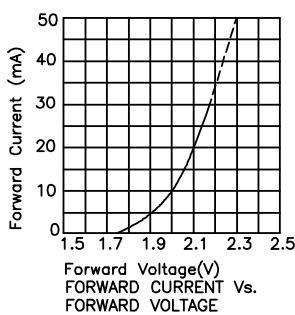
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.



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Remarks:

If there is sorting requirement (eg. forward voltage, luminous intensity or wavelength) , the condition as follows:

- 1.Wavelength: $\pm 1\text{nm}$ (Test condition is based on the sorting standard).
- 2.Luminous intensity: $\pm 15\%$ (Test condition is based on the sorting standard).
- 3.Forward voltage: $\pm 0.1\text{V}$ (Test condition is based on the sorting standard).