

P/N: SA52-11YWA

YELLOW

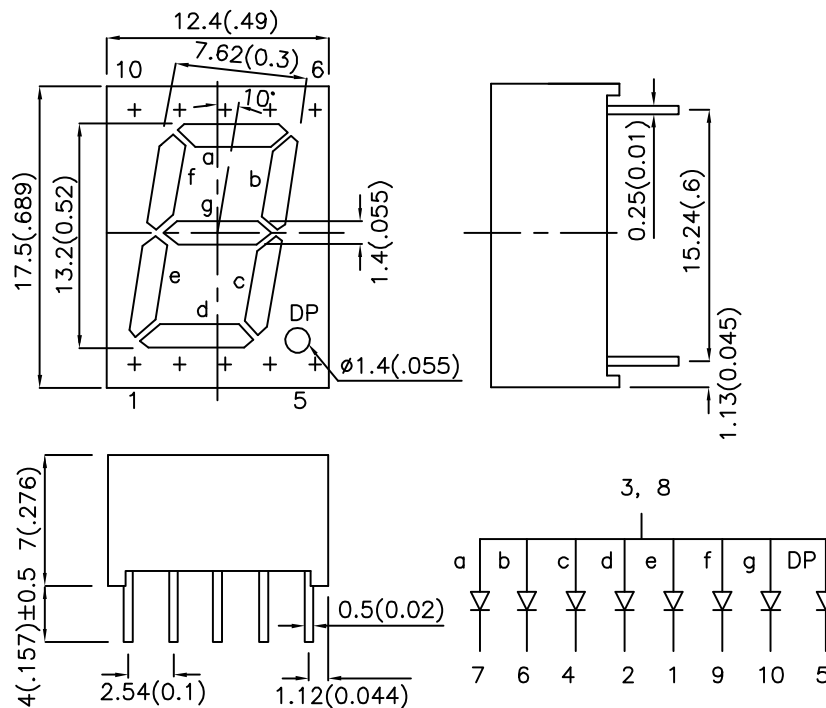
### Features

- 0.52 INCH DIGIT HEIGHT.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.

### Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow 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)<br>@ 10mA |      | Description                     |
|------------|--------------------|----------------|--------------------|------|---------------------------------|
|            |                    |                | Min.               | Typ. |                                 |
| SA52-11YWA | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 1200               | 4700 | Common Anode, Rt. Hand Decimal. |

## Electrical / Optical Characteristics at TA=25°C

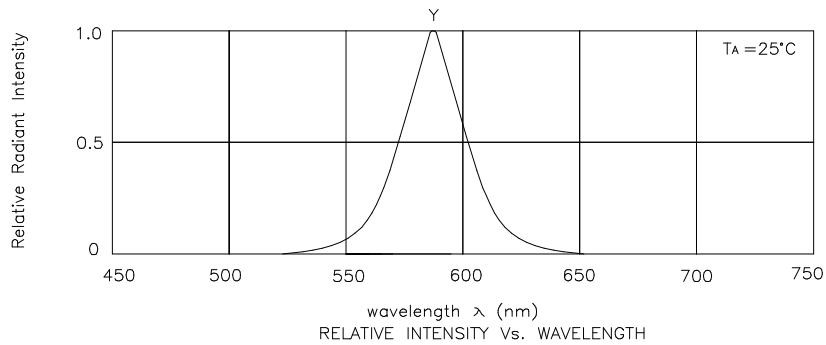
| Symbol                | Parameter                | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|-----------------|
| $\lambda_{peak}$      | Peak Wavelength          | Yellow | 590  |      | nm    | IF=20mA     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

## Absolute Maximum Ratings at TA=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 5 Seconds |       |

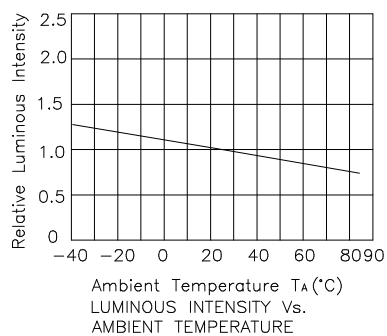
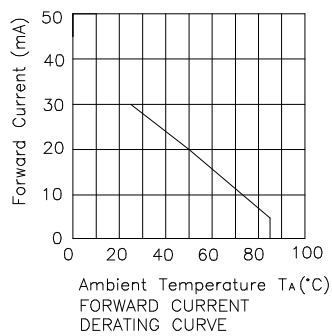
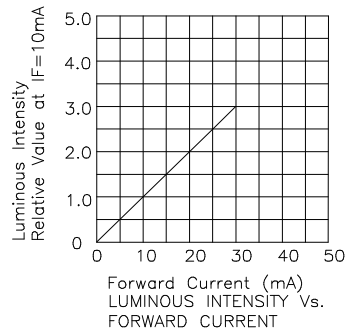
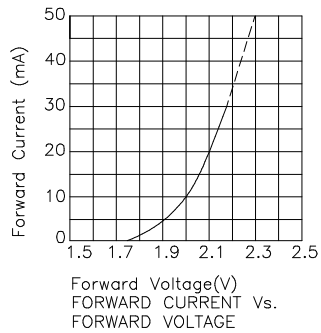
### Notes:

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



**Yellow**

**SA52-11YWA**



**Remarks:**

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

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