

Part Number: SA18-11SYKWA

Super Bright Yellow

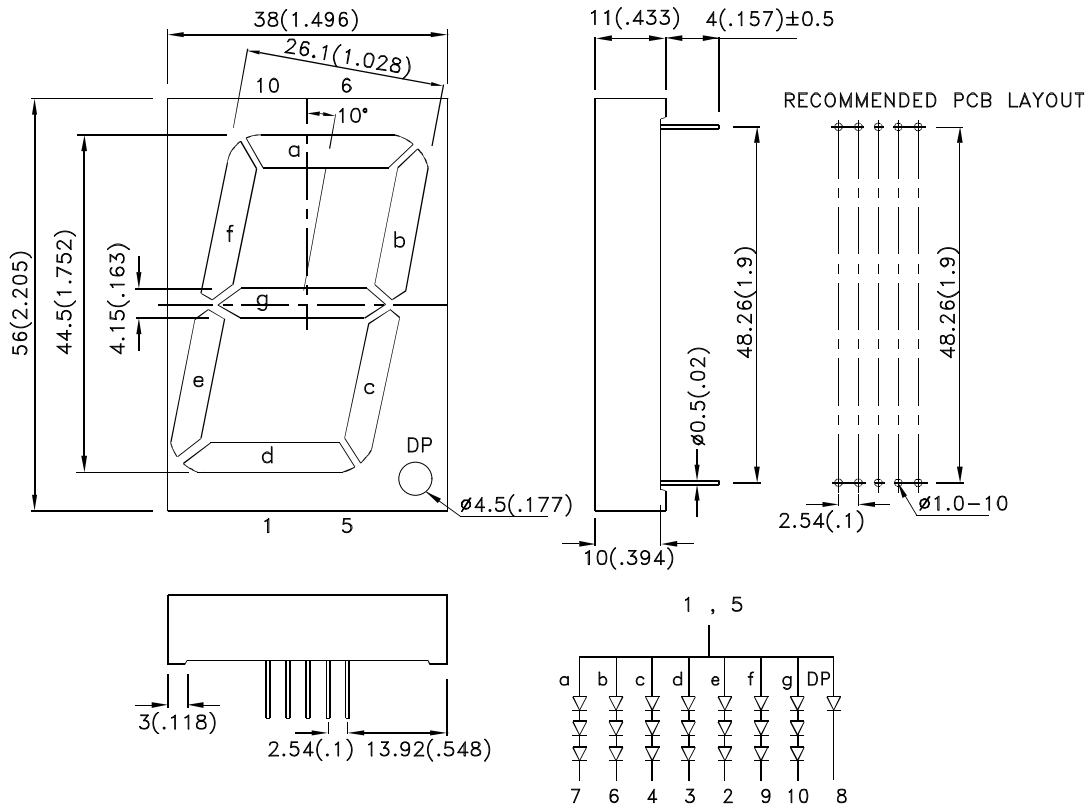
Features

- 1.75 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 Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

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] @ 10mA | | Description |
|--------------|-------------------------------|----------------|------------------------|--------|---------------------------------|
| | | | Min. | Typ. | |
| SA18-11SYKWA | Super Bright Yellow (AlGaInP) | White Diffused | 250000 | 700000 | 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 | Super Bright Yellow | 590 | | nm | I _F =20mA |
| λ_D [1] | Dominant Wavelength | Super Bright Yellow | 590 | | nm | I _F =20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Super Bright Yellow | 20 | | nm | I _F =20mA |
| C | Capacitance | Super Bright Yellow | 20 | | pF | V _F =0V;f=1MHz |
| V _F [2] | Forward Voltage Per Segment Or (DP) | Super Bright Yellow | 6.0 (2.0) | 7.5 (2.5) | V | I _F =20mA |
| I _R | Reverse Current Per Segment Or (DP) | Super Bright Yellow | | 10 | uA | V _R =15V (V _R =5V) |

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

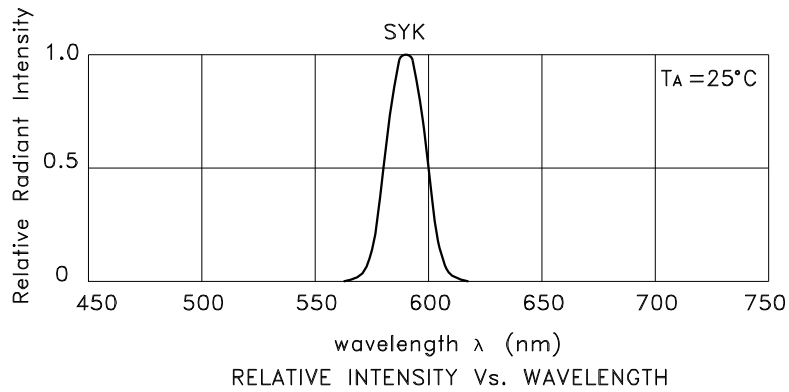
Absolute Maximum Ratings at TA=25°C

| Parameter | Super Bright Yellow | Units |
|---|-----------------------|-------|
| Power dissipation Per Segment Or (DP) | 225 (75) | mW |
| DC Forward Current Per Segment Or (DP) | 30 | mA |
| Peak Forward Current [1] Per Segment Or (DP) | 175 | mA |
| Reverse Voltage Per Segment Or (DP) | 15 (5) | V |
| Operating / Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature[2] | 260°C For 3-5 Seconds | |

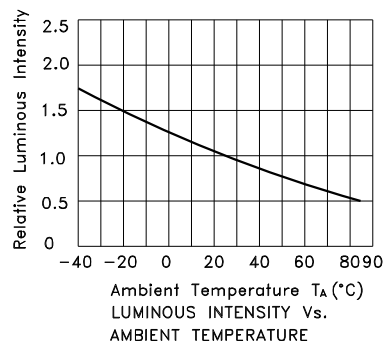
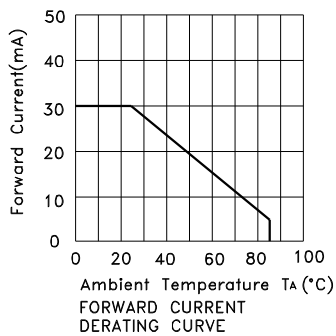
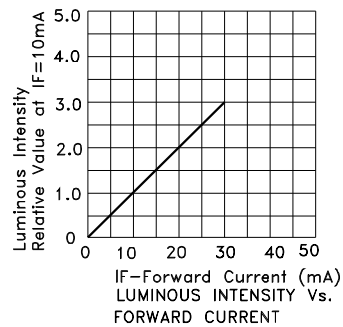
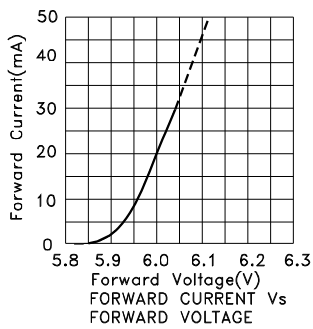
Notes:

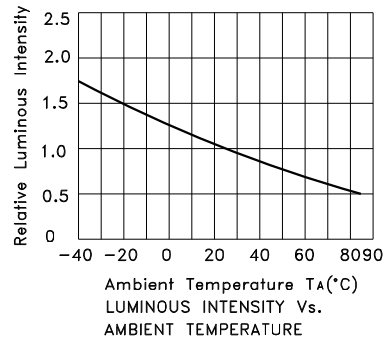
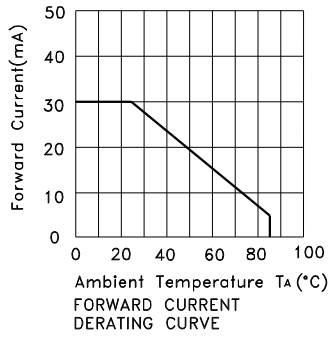
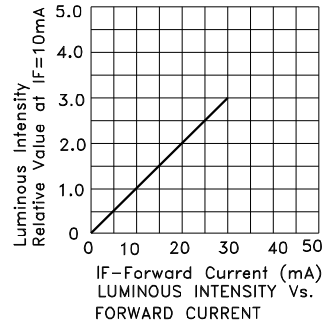
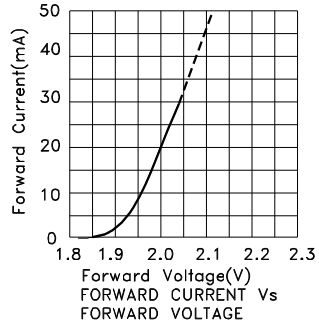
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



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PACKING & LABEL SPECIFICATIONS

SA18-11SYKWA

