

Part Number: PDC54-12YWA

YELLOW

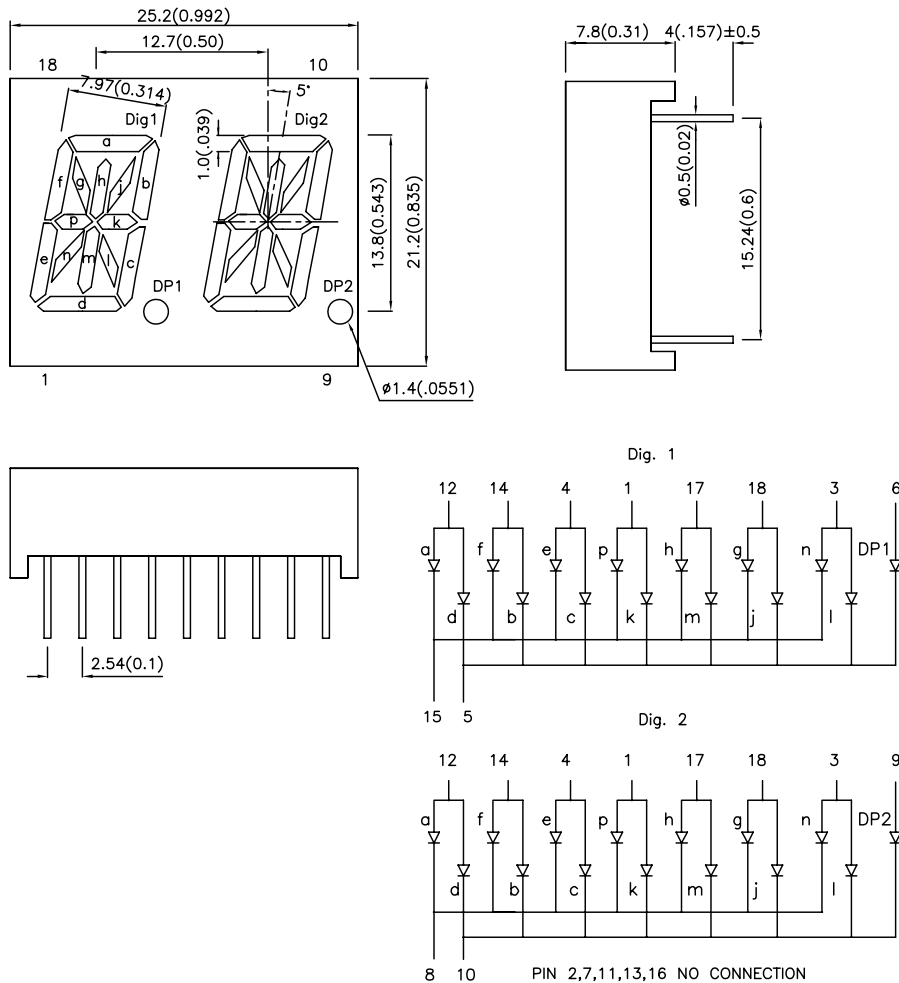
Features

- 0.54 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- CATEGORIZED FOR LUMINOUS INTENSITY.
- 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



Selection Guide

| Part No. | Dice | Lens Type | Iv (ucd) [1] @ 10mA | | Description |
|-------------|--------------------|----------------|------------------------|------|--------------------------------------|
| | | | Min. | Typ. | |
| PDC54-12YWA | YELLOW (GaAsP/GaP) | WHITE DIFFUSED | 800 | 3000 | 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 |
|-----------------------|--------------------------------------|--------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Yellow | 590 | | nm | IF=20mA |
| λ_D [1] | Dominant Wavelength | Yellow | 588 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Yellow | 35 | | nm | IF=20mA |
| C | Capacitance Per Segment or DP | Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage Per Segment or DP | Yellow | 2.1 | 2.5 | V | IF=20mA |
| IR | Reverse Current Per Segment or DP | Yellow | | 10 | uA | VR = 5V |

Notes:

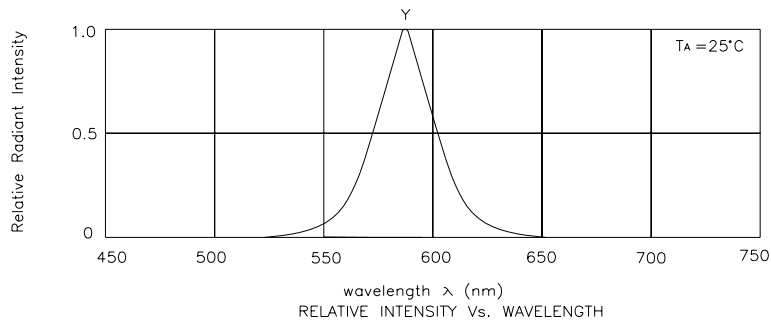
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

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

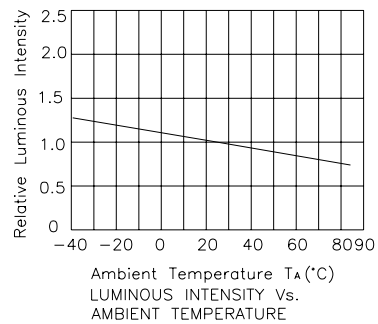
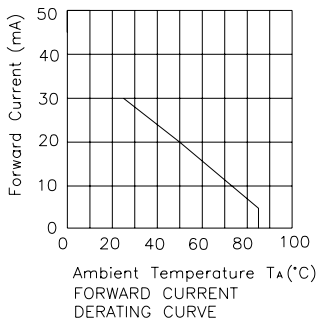
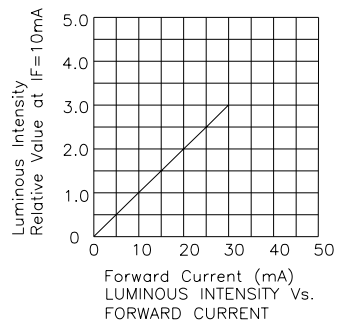
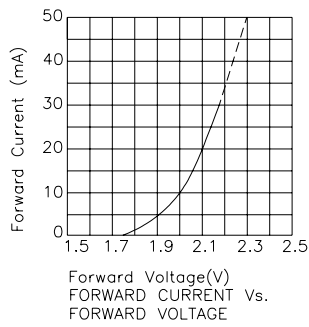
Notes:

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



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PACKING & LABEL SPECIFICATIONS

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