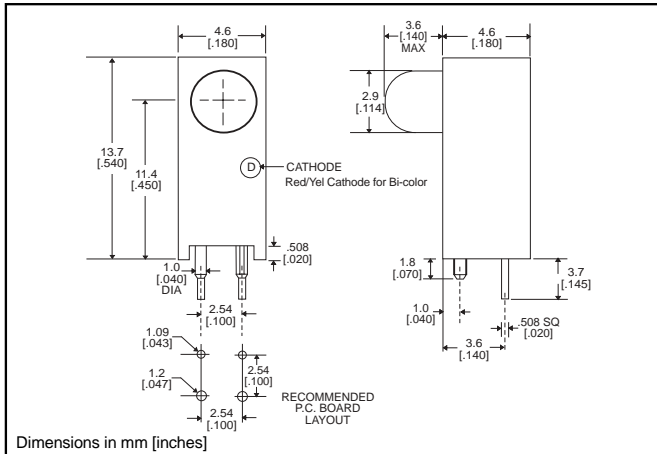


3mm

# LED CBI® Circuit Board Indicator .450" High LED Centerline

# Dialight

## 551-xx04



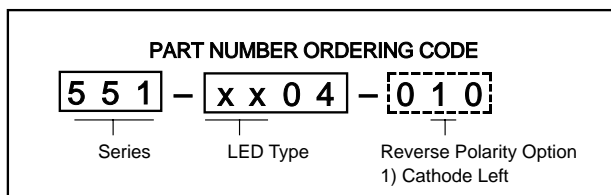
Standard Polarity shown in drawing: Cathode right

### Features

- Multiple CBIs form horizontal LED arrays on 4.7mm (0.185") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 31.5%
- Polymer content: PBT, 0.314 g
- Housing stand-offs facilitate PCB cleaning
- Solderability per MIL-STD-202F, method 208F
- LEDs are safe for direct viewing per IEC 825-1, EN-60825-1

### Tolerance note: As noted, otherwise:

- LED Protrusion:  $\pm 0.04$  mm [ $\pm 0.016$ ]
- CBI Housing:  $\pm 0.02$ mm [ $\pm 0.008$ ]



-010 Ordering Code Suffix required ONLY for Reverse Polarity Option

### PART NO.

### COLOR

#### HIGH EFFICIENCY

|          |        |
|----------|--------|
| 551-0204 | Green  |
| 551-0304 | Yellow |
| 551-0404 | Red    |
| 551-2504 | Orange |

#### INTEGRAL RESISTOR, 5 VOLTS

|          |        |
|----------|--------|
| 551-0504 | Red    |
| 551-0604 | Green  |
| 551-0704 | Yellow |

#### LOW CURRENT

|          |        |
|----------|--------|
| 551-1104 | Red    |
| 551-1204 | Yellow |
| 551-1304 | Green  |

#### BI-COLOR

|          |              |
|----------|--------------|
| 551-3004 | Red/Green    |
| 551-3104 | Yellow/Green |

To order any of the 551-xx04 part numbers with Reverse Polarity (Cathode Left), please add -010 to the part numbers shown above.

## Typical Operating Characteristics ( $T_A=25^{\circ}\text{C}$ )

See LED data sheet for additional information  
See page 4-70 and 4-71 for Reference Only LED Drive Circuit Examples. See page 4-72 for Pin Out

### HIGH EFFICIENCY

| Part Number | Color  | Peak Wavelength nm | $I_V$ mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle $2\theta_{\%}$ | LED Data sheet | Page # |
|-------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 551-0204    | Green  | 563                | 16        | 2.1         | 10                | 45°                          | 521-9408       | 4-64   |
| 551-0304    | Yellow | 585                | 6.3       | 2.1         | 10                | 45°                          | 521-9428       | 4-64   |
| 551-0404    | Red    | 650                | 10        | 2           | 10                | 45°                          | 521-9427       | 4-64   |
| 551-2504    | Orange | 600                | 7         | 2.2         | 10                | 60°                          | 521-9498       | 4-58   |

### INTEGRAL RESISTOR, 5 VOLTS

| Part Number | Color  | Peak Wavelength nm | $I_V$ mcd | Test Voltage | Forward Current (mA) | Viewing Angle $2\theta_{\%}$ | LED Data sheet | Page # |
|-------------|--------|--------------------|-----------|--------------|----------------------|------------------------------|----------------|--------|
| 551-0504    | Red    | 635                | 29        | 5            | 10                   | 60°                          | 521-9215       | 4-59   |
| 551-0604    | Green  | 565                | 19        | 5            | 10                   | 60°                          | 521-9323       | 4-59   |
| 551-0704    | Yellow | 585                | 12.6      | 5            | 10                   | 60°                          | 521-9322       | 4-59   |

### LOW CURRENT

| Part Number | Color  | Peak Wavelength nm | $I_V$ mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle $2\theta_{\%}$ | LED Data sheet | Page # |
|-------------|--------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 551-1104    | Red    | 635                | 1.6       | 1.7         | 2                 | 60°                          | 521-9324       | 4-60   |
| 551-1204    | Yellow | 585                | 1.6       | 1.8         | 2                 | 60°                          | 521-9325       | 4-60   |
| 551-1304    | Green  | 565                | 1.6       | 1.9         | 2                 | 60°                          | 521-9326       | 4-60   |

### BI-COLOR

| Part Number | Color        | Peak Wavelength nm | $I_V$ mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle $2\theta_{\%}$ | LED Data sheet | Page # |
|-------------|--------------|--------------------|-----------|-------------|-------------------|------------------------------|----------------|--------|
| 551-3004    | Red/Green    | 635/565            | 5         | 2           | 10                | 50°                          | 521-9459       | 4-63   |
| 551-3104    | Yellow/Green | 585/565            | 4.3/6.3   | 2.1*/2.1*   | 10                | 80°                          | 521-9478       | 4-62   |

\*  $I_F = 20\text{mA}$