Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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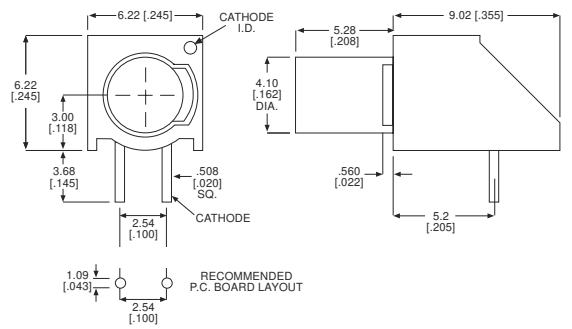
# 4mm Flat Top
# LED CBI® Circuit Board Indicator
# Sloped Back Housing

Dialight

# 550-6x07




Dimensions in mm [inches]

| PART NO. | COLOR |
|---|---|
| 550-6207 | Green |
| 550-6307 | Yellow |
| 550-6407 | Red |

## Features

- Multiple CBIs form horizontal LED arrays on 6.35mm (0.250") center-lines.
- Flat LED provides flush panel appearance and wide viewing angle
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.596 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
- Compatible with 552-60xx-200

## Tolerance note: As noted, otherwise:

- LED Protrusion: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm[±0.008]

## Typical Operating Characteristics ($T_A$=25°C)

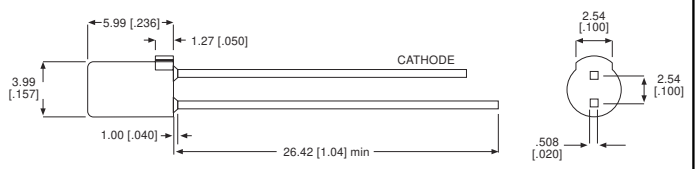
*See LED data sheet for additional information*
*See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example*
*See Page 5-22 for Pin Out*

| Part Number | Color | Peak Wavelength nm | Iv mcd | $V_F$ Volts | Test Current (mA) | Viewing Angle $2\Theta_{½}$ | LED Data sheet | Page # |
|---|---|---|---|---|---|---|---|---|
| 550-6207 | Green | 565 | 12.6 | 2.1 | 20 | 150° | 521-9708 | 5-19 |
| 550-6307 | Yellow | 585 | 8.7 | 2.1 | 20 | 150° | 521-9707 | 5-19 |
| 550-6407 | Red | 630 | 8.7 | 2 | 20 | 145° | 521-9706 | 5-19 |

# 4mm Discrete LED
# Flat Top
# Tinted, Diffused

Dialight

521-970x




Dimensions in mm [inches]

| PART NO. | COLOR |
|---|---|
| 521-9706 | Red |
| 521-9707 | Yellow |
| 521-9708 | Green |

| **ABSOLUTE MAXIMUM RATINGS** ($T_A$=25°C) | Red **-9706** | Yellow **-9707** | Green **-9708** |
|---|---|---|---|
| Power Dssipation (mW) | 100 | 60 | 100 |
| Derating (mA/°C) *From 50°C* | .4 | .25 | .4 |
| Forward Current (mA) | 30 | 20 | 30 |
| Peak Current (mA) *Pulse width = 100µs* | 120 | 80 | 120 |
| Operating Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Storage Temperature (°C) | -55/+100 | -55/+100 | -55/+100 |
| Soldering Temperature | 260°C, 5 seconds, 1.6 mm from case | | |

*Solder Adherence per MIL-STD-202E, Method 208C*

| **OPERATING CHARACTERISTICS** ($T_A$=25°C) | | Red **-9706** | Yellow **-9707** | Green **-9708** |
|---|---|---|---|---|
| Luminous Intensity (mcd) | Min. | 2.5 | 5.6 | 8.7 |
| $I_F$=20mA | Typical | 8.7 | 8.7 | 12.6 |
| Peak Wavelength (nm) λ Peak | Typical | 630 | 585 | 565 |
| Viewing Angle (2Θ ½) | Typical | 145° | 150° | 150° |
| Forward Voltage (V) | Typical | 2 | 2.1 | 2.1 |
| $I_F$=20mA | Max. | 2.8 | 2.8 | 2.8 |
| Reverse Voltage (V), $I_R$=100µA | Min. | 5 | 5 | 5 |

Θ ½ *is the off axis angle at which the luminous intensity is half the axial luminous intensity*

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