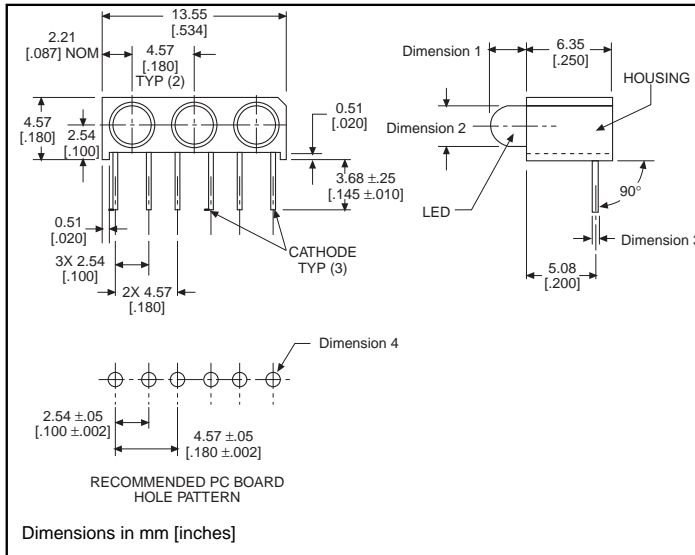


# 3mm LED CBI Circuit Board Indicator Tri-Block, .100" High LED Centerline

# Dialight

551-xx06-003



PART NO.	COLOR*	CHART
<b>HIGH EFFICIENCY</b>		
551-0206-003	Green	A
551-0306-003	Yellow	A
551-0406-003	Red	A
<b>LOW CURRENT</b>		
551-1106-003	Red	B
551-1206-003	Yellow	B
551-1306-003	Green	B

\* LED1, LED 2, LED 3

### Custom Combinations

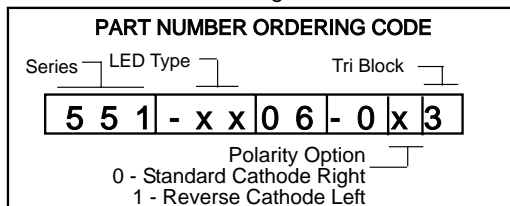
- Contact factory for information on custom color combinations

Standard Polarity shown in drawing: Cathode right

	CHART A	CHART B
Dimension 1	2.67 [0.105]	2.41 [0.095]
Dimension 2	3.10 ± 0.20 [0.122 ± 0.008]	2.92 ± 0.25 [0.115 ± 0.010]
Dimension 3	.51 [0.020]	.46 [0.018]
Dimension 4	Ø 1.09 ± 0.05 [0.043 ± 0.002] TYP (6)	Ø 1.02 ± 0.05 [0.040 ± 0.002] TYP (6)

### REVERSE POLARITY OPTION AVAILABLE

See Part Number Ordering Code below.



### Features

- Multiple CBIs form horizontal LED arrays on 4.57mm (0.180") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 31.5%
- Polymer content: PBT, 0.346 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: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm [±0.008]

### Typical Operating Characteristics (T<sub>A</sub>=25°C)

See LED data sheet for additional information

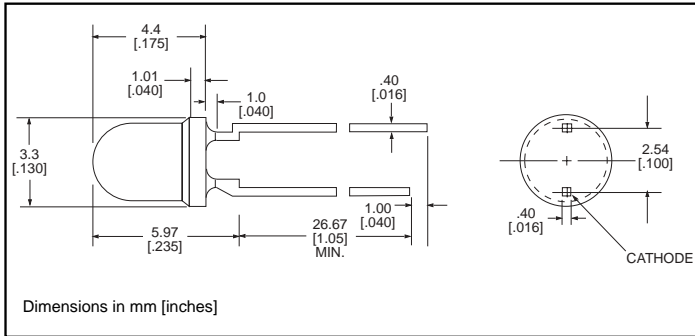
See page 4-70 and 4-71 for Reference Only LED Drive Circuit Examples. See page 4-72 for Pin Out

Part Number	Color	Peak Wavelength nm	I <sub>v</sub> mcd	V <sub>f</sub> Volts	Test Current (mA)	Viewing Angle 2θ <sub>1/2</sub>	LED Data sheet	Page #
551-0206-003	Green	563	16	2.1	10	45°	521-9408	4-64
551-0306-003	Yellow	585	6.3	2.1	10	45°	521-9428	4-64
551-0406-003	Red	650	10	2	10	45°	521-9427	4-64
551-1106-003	Red	635	1.6	1.7	2	60°	521-9324	4-60
551-1206-003	Yellow	585	1.6	1.8	2	60°	521-9325	4-60
551-1306-003	Green	565	1.6	1.9	2	60°	521-9326	4-60

**3mm Discrete LED**  
**Low Current**  
**Diffused**

**Dialight**

**521-9324, -9325, -9326**



<u>PART NO.</u>	<u>COLOR</u>
521-9324	Red
521-9325	Yellow
521-9326	Green

**MOUNTING CLIP:** 515-0006  
 located on page 4-65

**ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^\circ\text{C}$ )

	Red <b>-9324</b>	Yellow <b>-9325</b>	Green <b>-9326</b>
Power Dissipation (mW)	20	20	20
Forward Current (mA)	7	7	7
Derating (mA/ $^\circ\text{C}$ ) From $90^\circ\text{C}$	.7	.7	.7
Peak Current (mA) Pulse width = 10 $\mu\text{s}$	500	500	500
Operating Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100
Storage Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100
Soldering Temperature	260 $^\circ\text{C}$ , 5 seconds, 1.6 mm from case		

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

**OPERATING CHARACTERISTICS** ( $T_A=25^\circ\text{C}$ )

		Red <b>-9324</b>	Yellow <b>-9325</b>	Green <b>-9326</b>
Luminous Intensity (mcd) $I_F=2\text{mA}$	Min.	1	1	1
	Typical	1.6	1.6	1.6
Peak Wavelength (nm) $\lambda_{\text{Peak}}$	Typical	635	585	565
Viewing Angle ( $2\theta_{\text{H}}$ )	Typical	60 $^\circ$	60 $^\circ$	60 $^\circ$
Forward Voltage (V) $I_F=2\text{mA}$	Typical	1.7	1.8	1.9
	Max.	2.2	2.7	2.2
Reverse Voltage (V), $I_R=50\mu\text{A}$	Min.	5	5	5

$\theta_{\text{H}}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity

# 3mm Discrete LED High Efficiency Diffused

# Dialight

## 521-94xx



**TYPE**  
521-9408  
521-9427  
521-9428

**COLOR**  
Green  
Red  
Yellow

**MOUNTING CLIP: 515-0006**  
located on page 4-65

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

	Green <b>-9408</b>	Red <b>-9427</b>	Yellow <b>-9428</b>
Power Dissipation (mW)	75	60	60
Forward Current (mA)	25	20	20
Derating (mA/°C) From 50°C	.5	.5	.5
Peak Current (mA)	60	60	60
Operating Temperature (°C)	-25/+85	-25/+85	-25/+85
Storage Temperature (°C)	-30/+100	-30/+100	-30/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case		

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

### OPERATING CHARACTERISTICS (T<sub>A</sub>=25°C)

		Green <b>-9408</b>	Red <b>-9427</b>	Yellow <b>-9428</b>
Luminous Intensity (mcd)	Min.	5.6	3.6	2.2
	Typical	16	10	6.3
Peak Wavelength (nm)	Typical	563	650	585
Viewing Angle (2θ <sup>1/2</sup> )	Typical	45°	45°	45°
Forward Voltage (V)	Typical	2.1	2	2.1
	Max.	3	3	3
Reverse Voltage (V), I <sub>R</sub> =10μA	Min.	3	3	3

θ<sup>1/2</sup> is the off axis angle at which the luminous intensity is half the axial luminous intensity