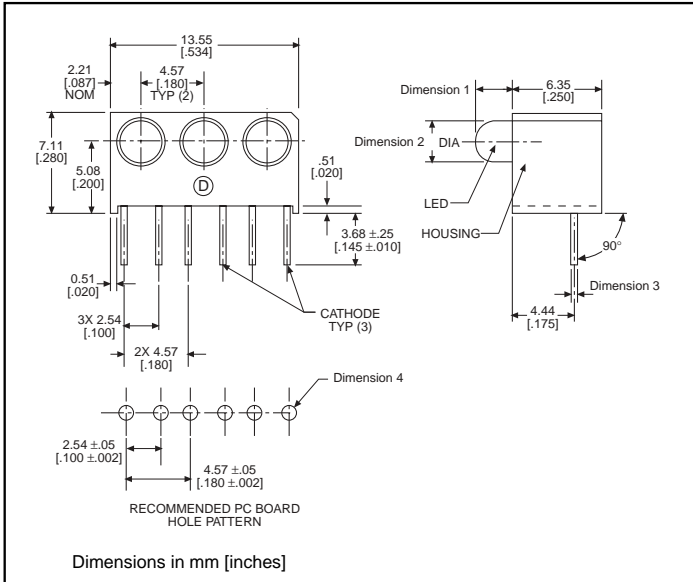


# 3mm LED CBI® Circuit Board Indicator Tri-Block, .200" High LED Centerline



Standard Polarity shown in drawing: Cathode right

	CHART A	CHART B
Dimension 1	2.67 [.105]	2.41 [.095]
Dimension 2	3.10 ±.20 [.122 ±.008]	2.92 ±.25 [.115 ±.010]
Dimension 3	.51 [.020]	.46 [.018]
Dimension 4	Ø 1.09 ±.05 [.043 ±.002] TYP (6)	Ø 1.02 ±.05 [.040 ±.002] TYP (6)

## REVERSE POLARITY OPTION AVAILABLE

See Part Number Ordering Code below.

**PART NUMBER ORDERING CODE**

Series  LED Type  Tri Block

**5 5 1 - x x 0 7 - 0 x 3**

Polarity Option

0 - Standard Cathode Right  
1 - Reverse Cathode Left

## 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 #
551-0207-003	Green	563	16	2.1	10	45°	521-9408	4-64
551-0307-003	Yellow	585	6.3	2.1	10	45°	521-9428	4-64
551-0407-003	Red	650	10	2	10	45°	521-9427	4-64
551-1107-003	Red	635	1.6	1.7	2	60°	521-9324	4-60
551-1207-003	Yellow	585	1.6	1.8	2	60°	521-9325	4-60
551-1307-003	Green	565	1.6	1.9	2	60°	521-9326	4-60

## PART NO. COLOR\* CHART

### HIGH EFFICIENCY

551-0207-003	Green	A
551-0307-003	Yellow	A
551-0407-003	Red	A

### LOW CURRENT

551-1107-003	Red	B
551-1207-003	Yellow	B
551-1307-003	Green	B

\* LED 1, LED 2, LED 3

## Custom Combinations

- Contact factory for information on custom color combinations

## 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, 0.569 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]

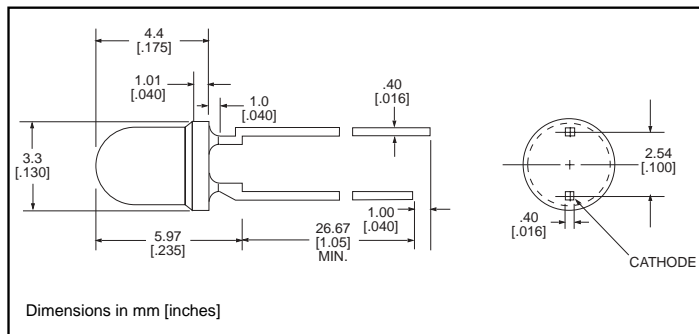
# 3mm Discrete LED

## Low Current

## Diffused

# Dialight

## 521-9324, -9325, -9326



### PART NO. COLOR

521-9324	Red
521-9325	Yellow
521-9326	Green

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

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

	Red -9324	Yellow -9325	Green -9326
Power Dissipation (mW)	20	20	20
Forward Current (mA)	7	7	7
Derating (mA/°C) From 90°C	.7	.7	.7
Peak Current (mA) Pulse width = 10 μs	500	500	500
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<sub>A</sub>=25°C)

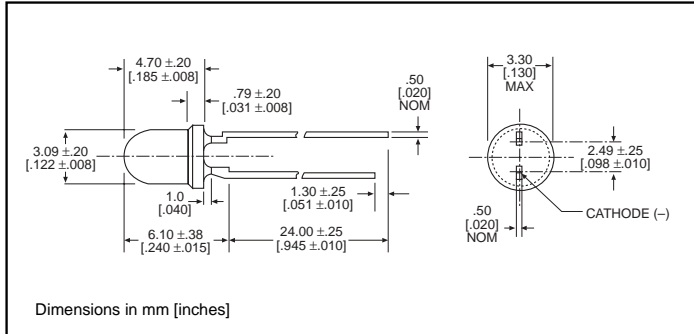
		Red -9324	Yellow -9325	Green -9326
Luminous Intensity (mcd) I <sub>F</sub> =2mA	Min.	1	1	1
	Typical	1.6	1.6	1.6
Peak Wavelength (nm) λ Peak	Typical	635	585	565
Viewing Angle (2Θ °)	Typical	60°	60°	60°
Forward Voltage (V) I <sub>F</sub> =2mA	Typical	1.7	1.8	1.9
	Max.	2.2	2.7	2.2
Reverse Voltage (V), I <sub>R</sub> =50μA	Min.	5	5	5

Θ 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