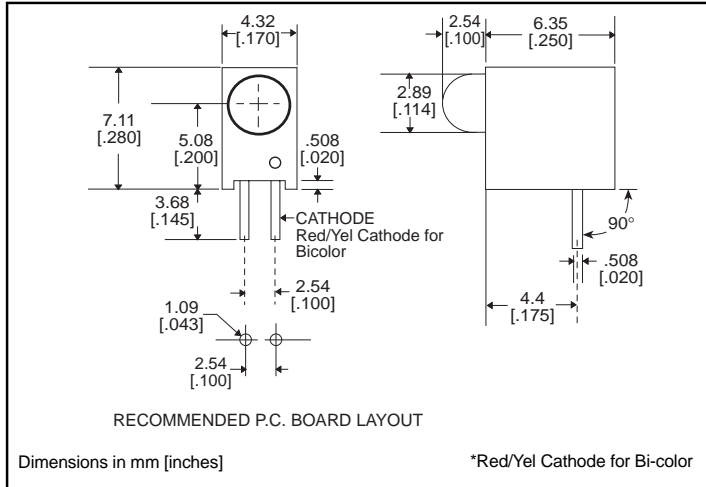


3mm

# LED CBI® Circuit Board Indicator .200" High LED Centerline

# Dialight

## 551-xx07



Standard Polarity shown in drawing: Cathode right

### Benefits

- Quad block (551-xx07-004) available for reduced insertions
- Available with a variety of LEDs
- Housing material UL94V-0 rated
- Black housing enhances contrast
- High reliability - life measured in years
- Vibration and shock resistant
- Housing assures proper LED alignment
- Standoffs on housing facilitate PC board cleaning

### LED Data

- For absolute maximum ratings and other electrical/optical data, refer to LED data sheet.

### PART NO.

#### HIGH EFFICIENCY

- 551-0207
- 551-0307
- 551-0407
- 551-2507

### COLOR

- Green
- Yellow
- Red
- Orange

#### INTEGRAL RESISTOR, 5V

- 551-0507
- 551-0607
- 551-0707

- Red
- Green
- Yellow

#### LOW CURRENT

- 551-1107
- 551-1207
- 551-1307

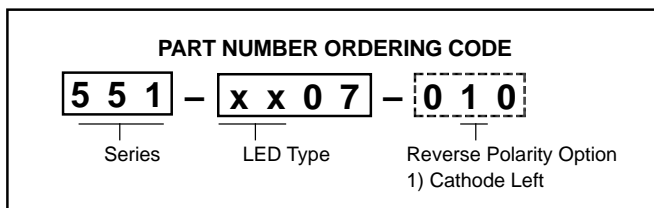
- Red
- Yellow
- Green

#### BI-COLOR

- 551-3007
- 551-3107

- Red/Green
- Yellow/Green

To order any of the 551-xx07 part numbers with Reverse Polarity (Cathode Left), please add -010 to the part numbers shown above.



-010 Ordering Code Suffix required ONLY for Reverse Polarity Option

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

See LED data sheet for additional information

### HIGH EFFICIENCY

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\Theta_{1/2}$	LED Data sheet	Page #
551-0207	Green	563	16	2.1	10	45°	521-9408	4-63
551-0307	Yellow	585	6.3	2.1	10	45°	521-9428	4-63
551-0407	Red	650	10	2	10	45°	521-9427	4-63
551-2507	Orange	600	6.5	2.2	10	60°	521-9498	4-53

### INTEGRAL RESISTOR, 5V

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	Test Voltage	Forward Current (mA)	Viewing Angle $2\Theta_{1/2}$	LED Data sheet	Page #
551-0507	Red	635	4	5	10	60°	521-9215	4-54
551-0607	Green	565	8	5	12	60°	521-9323	4-54
551-0707	Yellow	583	8	5	10	60°	521-9322	4-54

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### LOW CURRENT

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\Theta_{1/2}$	LED Data sheet	Page #
551-1107	Red	635	1.8	1.8	2	50°	521-9324	4-55
551-1207	Yellow	583	1.6	1.9	2	50°	521-9325	4-55
551-1307	Green	565	1.6	1.8	2	50°	521-9326	4-55

### BI-COLOR

Bicolor data shown as red/green or yellow/green

Part Number	Color	Peak Wavelength nm	$I_V$ mcd	$V_F$ Volts	Test Current (mA)	Viewing Angle $2\Theta_{1/2}$	LED Data sheet	Page #
551-3007	Red/Green	635/565	5	2	10	50°	521-9459	4-58
551-3107	Yellow/Green	585/565	4.3/6.3	2.1*/2.1*	10	80°	521-9478	4-57

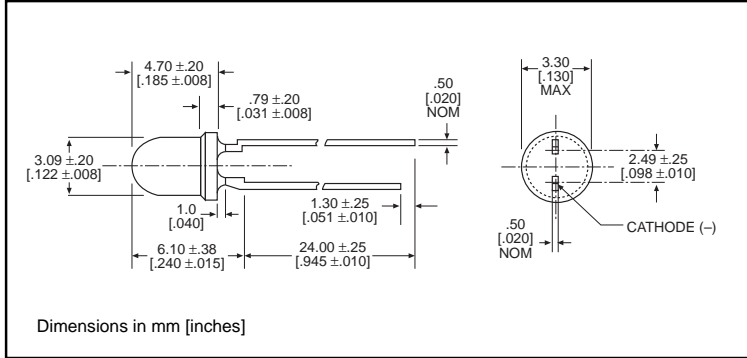
\*  $I_F = 20\text{mA}$



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

	Green -9408	Red -9427	Yellow -9428
Power Dissipation (mW)	75	60	60
Forward Current (mA)	25	20	20
Derating (mA/°C) <i>From 50°C</i>	.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 ( $T_A=25^\circ\text{C}$ )

		Green -9408	Red -9427	Yellow -9428
Luminous Intensity (mcd)	Min.	5.6	3.6	2.2
	Typical	16	10	6.3
Peak Wavelength (nm)	Typical	563	650	585
Viewing Angle ( $2\theta_{1/2}$ )	Typical	45°	45°	45°
Forward Voltage (V)	Typical	2.1	2	2.1
	Max.	3	3	3
Reverse Voltage (V), $I_R=10\mu\text{A}$	Min.	3	3	3

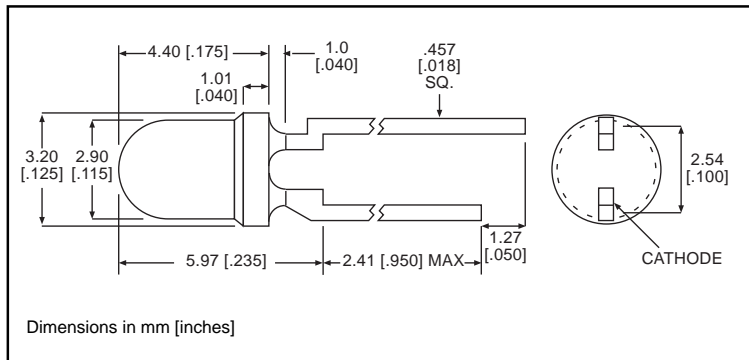
$\theta_{1/2}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity

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# 3mm Discrete LED Integral Resistor, 5V Diffused

# Dialight

## 521-9215, -9322, -9323



<u>PART NO.</u>	<u>COLOR</u>
521-9215	Red
521-9322	Yellow
521-9323	Green

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

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

	Red <b>-9215</b>	Yellow <b>-9322</b>	Green <b>-9323</b>
Forward Voltage (V)	7.5	7.5	7.5
Derating (V/ $^\circ\text{C}$ ) From $50^\circ\text{C}$	.071	.071	.071
Operating Temperature ( $^\circ\text{C}$ )	-40/+85	-40/+85	-20/+85
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>-9215</b>	Yellow <b>-9322</b>	Green <b>-9323</b>
Luminous Intensity (mcd)	Min.	1.5	2	2
	Typical	4	8	8
Peak Wavelength (nm)	Typical	635	583	565
$\lambda$ Peak				
Viewing Angle ( $2\theta$ $\frac{1}{2}$ )	Typical	60 $^\circ$	60 $^\circ$	60 $^\circ$
Forward Current (mA)	Typical	10	10	12
	Max.	15	15	15
Reverse Voltage (V), $I_R=100\mu\text{A}$	Min.	5	5	5

$\theta$   $\frac{1}{2}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity

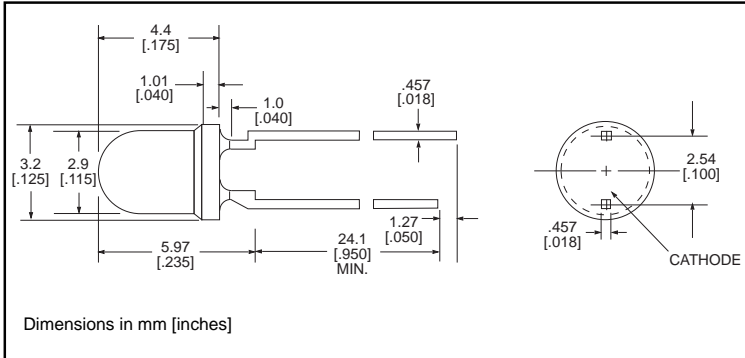
# 3mm Discrete LED

## Low Current

## Diffused

# Dialight

## 521-9324, -9325, -9326



### PART NO.

521-9324  
521-9325  
521-9326

### COLOR

Red  
Yellow  
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)	24	36	24
Forward Current (mA)	7	7	7
Derating (mA/°C) <i>From 92°C</i>	1	1	1
Peak Current (mA) <i>Pulse width = 10 <math>\mu\text{s}</math></i>	500	500	500
Operating Temperature (°C)	-55/+100	-55/+100	-20/+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 ( $T_A=25^\circ\text{C}$ )

		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	1.8	1.6	1.6
Peak Wavelength (nm) $\lambda_{\text{Peak}}$	Typical	635	583	565
Viewing Angle ( $2\theta_{1/2}$ )	Typical	50°	50°	50°
Forward Voltage (V) $I_F=2\text{mA}$	Typical	1.8	1.9	1.8
	Max.	2.2	2.7	2.2
Reverse Voltage (V), $I_R=50\mu\text{A}$	Min.	5	5	5

$\theta_{1/2}$  is the off axis angle at which the luminous intensity is half the axial luminous intensity