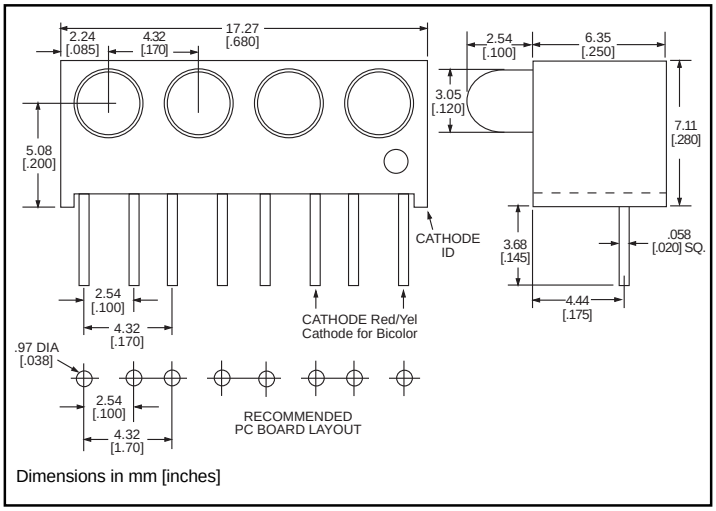
3mm
LED CBI® Circuit Board Indicator
Quad, .200” High LED Centerline

Dialight

551-xx07-004



Standard Polarity shown in drawing: Cathode right

PART NO.	COLOR*
HIGH EFFICIENCY	
551-0207-004	Green
551-0307-004	Yellow
551-0407-004	Red
551-2507-004	Orange
INTEGRAL RESISTOR, 5V	
551-0507-004	Red
551-0607-004	Green
551-0707-004	Yellow
LOW CURRENT	
551-1107-004	Red
551-1207-004	Yellow
551-1307-004	Green
BI-COLOR	
551-3007-004	Red/Green
551-3107-004	Yellow/Green

* LED 1, LED 2, LED 3, LED 4

REVERSE POLARITY OPTION AVAILABLE NEW
See Part Number Ordering Code below.

Benefits

- Compatible with 551-xx07 Single CBI
- 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
- Single PC Board insertion of 4 LEDs
- Housing assures proper LED alignment
- Standoffs on housing facilitate PC board cleaning

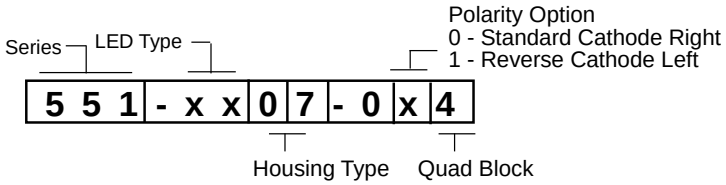
Custom Combinations

- Contact factory for information on custom color combinations

LED Data

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

PART NUMBER ORDERING CODE



4

Typical Operating Characteristics (T_A=25°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 2Θ½	LED Data sheet	Page #
551-0207-004	Green	563	16	2.1	10	45°	521-9408	4-63
551-0307-004	Yellow	585	6.3	2.1	10	45°	521-9428	4-63
551-0407-004	Red	650	10	2	10	45°	521-9427	4-63
551-2507-004	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 2Θ½	LED Data sheet	Page #
551-0507-004	Red	635	4	5	10	60°	521-9215	4-54
551-0607-004	Green	565	8	5	12	60°	521-9323	4-54
551-0707-004	Yellow	583	8	5	10	60°	521-9322	4-54

LOW CURRENT

Part Number	Color	Peak Wavelength nm	I_V mcd	V_F Volts	Test Current (mA)	Viewing Angle 2Θ½	LED Data sheet	Page #
551-1107-004	Red	635	1.8	1.8	2	50°	521-9324	4-55
551-1207-004	Yellow	583	1.6	1.9	2	50°	521-9325	4-55
551-1307-004	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 2Θ½	LED Data sheet	Page #
551-3007-004	Red/Green	635/565	5	2	10	50°	521-9459	4-58
551-3107-004	Yellow/Green	585/565	4.3/6.3	2.1*/2.1*	10	80°	521-9478	4-57

** I_F = 20mA*

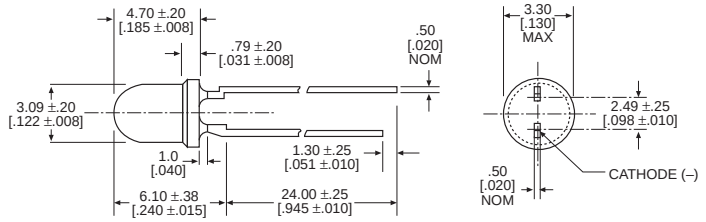
Dialight

NEW

3mm Discrete LED
High Efficiency
Diffused

Dialight

521-94xx



Dimensions in mm [inches]

TYPE	COLOR
521-9408	Green
521-9427	Red
521-9428	Yellow

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

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Green -9408	Red -9427	Yellow -9428
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 Adherance per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T_A=25°C)		Green -9408	Red -9427	Yellow -9428
Luminous Intensity (mcd)	Min.	5.6	3.6	2.2
I_F=10mA	Typical	16	10	6.3
Peak Wavelength (nm) λ Peak	Typical	563	650	585
Viewing Angle (2Θ ½)	Typical	45°	45°	45°
Forward Voltage (V)	Typical	2.1	2	2.1
I_F=10mA	Max.	3	3	3
Reverse Voltage (V), I_R=10µA	Min.	3	3	3

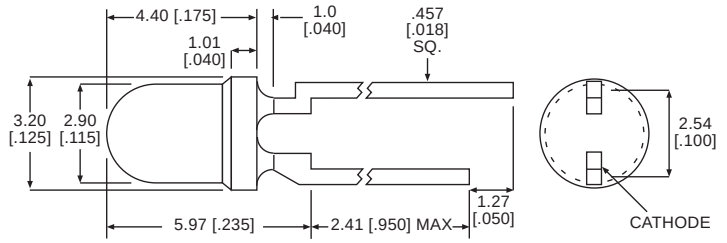
Θ ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity

4

3mm Discrete LED
Integral Resistor, 5V
Diffused

Dialight

521-9215, -9322, -9323



Dimensions in mm [inches]

PART NO.	COLOR
521-9215	Red
521-9322	Yellow
521-9323	Green

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

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Red **-9215**	Yellow **-9322**	Green **-9323**
Forward Voltage (V)	7.5	7.5	7.5
Derating (V/°C) *From 50°C*	.071	.071	.071
Operating Temperature (°C)	-40/+85	-40/+85	-20/+85
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case		

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

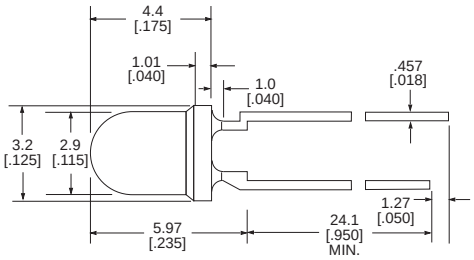
OPERATING CHARACTERISTICS (T_A=25°C)		Red **-9215**	Yellow **-9322**	Green **-9323**
Luminous Intensity (mcd)	Min.	1.5	2	2
V_F=5V	Typical	4	8	8
Peak Wavelength (nm) λ Peak	Typical	635	583	565
Viewing Angle (2Θ ½)	Typical	60°	60°	60°
Forward Current (mA)	Typical	10	10	12
V_F=5V	Max.	15	15	15
Reverse Voltage (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

3mm Discrete LED
Low Current
Diffused

Dialight

521-9324, -9325, -9326



Dimensions in mm [inches]

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_A=25°C)	Red **-9324**	Yellow **-9325**	Green **-9326**
Power Dissipation (mW)	24	36	24
Forward Current (mA)	7	7	7
Derating (mA/°C) *From 92°C*	1	1	1
Peak Current (mA) *Pulse width = 10 µs*	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 Adherance per MIL-STD-202E, Method 208C

OPERATING CHARACTERISTICS (T_A=25°C)		Red **-9324**	Yellow **-9325**	Green **-9326**
Luminous Intensity (mcd)	Min.	1	1	1
I_F=2mA	Typical	1.8	1.6	1.6
Peak Wavelength (nm)	Typical	635	583	565
λ Peak				
Viewing Angle (2Θ ½)	Typical	50°	50°	50°
Forward Voltage (V)	Typical	1.8	1.9	1.8
I_F=2mA	Max.	2.2	2.7	2.2
Reverse Voltage (V), I_R=50µA	Min.	5	5	5

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