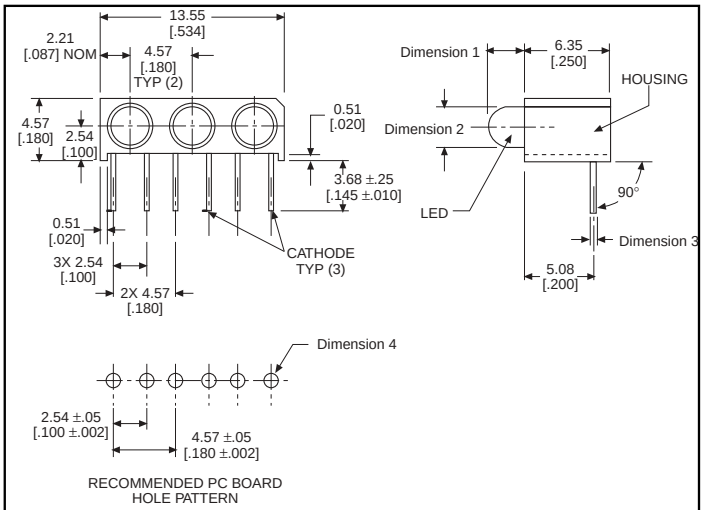
3mm
LED CBI Circuit Board Indicator
Tri-Block, .100” High LED Centerline

Dialight

551-xx06-003



Dimensions in mm [inches]

PART NO.	COLOR*	CHART
HIGH EFFICIENCY		
551-0206-003	Green	A
551-0306-003	Yellow	A
551-0406-003	Red	A
LOW CURRENT		
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

4

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 6 - 0 x 3

Polarity Option
0 - Standard Cathode Right
1 - Reverse Cathode Left

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_A=25°C)

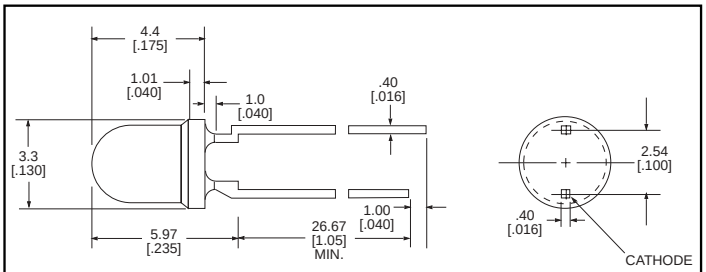
See LED data sheet for additional information

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	Iv mcd	V_F Volts	Test Current (mA)	Viewing Angle $2\Theta_{½}$	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

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)	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

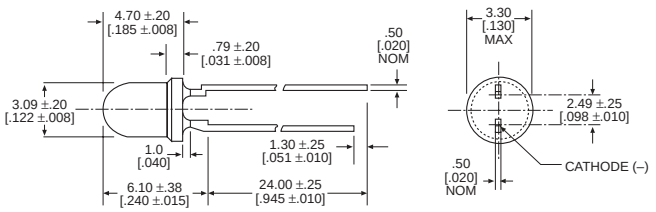
OPERATING CHARACTERISTICS (T_A=25°C)		Red **-9324**	Yellow **-9325**	Green **-9326**
Luminous Intensity (mcd)	Min.	1	1	1
I_F=2mA	Typical	1.6	1.6	1.6
Peak Wavelength (nm) λ Peak	Typical	635	585	565
Viewing Angle (2Θ ½)	Typical	60°	60°	60°
Forward Voltage (V)	Typical	1.7	1.8	1.9
I_F=2mA	Max.	2.2	2.7	2.2
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*

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 Adherence 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)	Typical	563	650	585
λ Peak				
Viewing Angle ($2\Theta_{1/2}$)	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

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