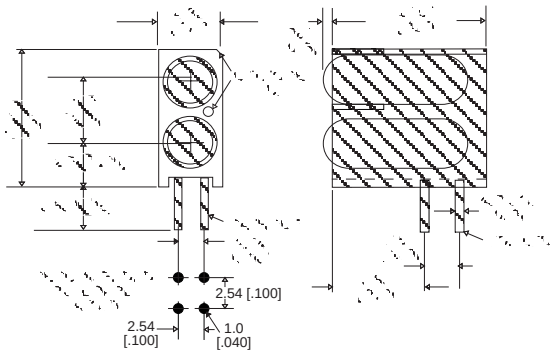
3mm
LED CBI® Circuit Board Indicator
Bi-level For Backlighting

553-22xx-100



Dimensions in mm [inches]

Standard Polarity shown in drawing: Cathode right

PART NO.	COLOR*
HIGH EFFICIENCY, TINTED, NON DIFFUSED	
553-2211-100	Red-Red
553-2222-100	Green-Green
553-2223-100	Green-Yellow
553-2232-100	Yellow-Green
553-2233-100	Yellow-Yellow

* Top-Bottom LED

REVERSE POLARITY OPTION AVAILABLE
See Part Number Ordering Code below.

Features

- Narrow viewing angle and extended housing reduce light bleed
- Multiple CBIs form horizontal LED arrays on 4.45mm (0.175") center-lines.
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.208 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
- Compatible with:
  551-xx02 Single
  564-2210-xxx Tri-Level
  568-221x-xxx Quad-Level

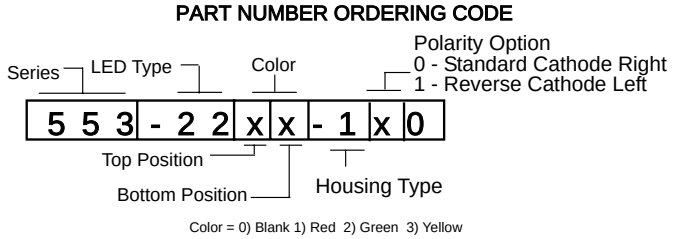
Custom Combinations

- Contact factory for information on custom color combinations.

Tolerance note: As noted, otherwise:

- LED Protrusion: ±0.04 mm [±0.016]
- CBI Housing: ±0.02mm[±0.008]

PART NUMBER ORDERING CODE



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

Color	Peak Wavelength nm	I_V mcd	V_F Volts*	Test Current (mA)	Viewing Angle ($2\theta^{-1}/_2$)	LED Data sheet	Page #
Red	635	29	2	10	45°	521-9432	4-61
Green	565	50	2.1	10	45°	521-9430	4-61
Yellow	585	20	2.1	10	45°	521-9431	4-61

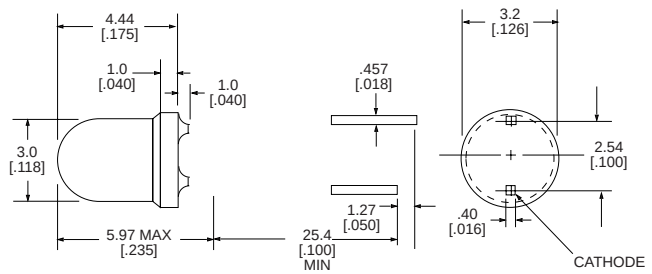
** I_F = 20mA*

CBI ARRAYS .200 PITCH

Dialight offers its Multiarray to reduce insertions and to assure indicator alignment. Multiarrays mount indicators on .200 centers. These assemblies are available in arrays of 2 to 6. See pages 4-41 and 4-42 for information. Call factory for information on .185 pitched arrays.

3mm Discrete LED
High Efficiency
Tinted, Non-Diffused

521-9430, -9431, -9432



Dimensions in mm [inches]

PART NO.	COLOR
521-9430	Green
521-9431	Yellow
521-9432	Red

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

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Green **-9430**	Yellow **-9431**	Red **-9432**
Power Dissipation (mW)	100	60	100
Forward Current (mA)	30	20	30
Derating (mA/°C) *From 50°C*	.4	.25	.4
Peak Current (mA) *Pulse width = 100µs*	120	80	120
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)		Green **-9430**	Yellow **-9431**	Red **-9432**
Luminous Intensity (mcd)	Min.	32	10	8.7
I_F=10mA	Typical	50	20	29
Peak Wavelength (nm) λ Peak	Typical	565	585	635
Viewing Angle (2Θ½)	Typical	45°	45°	45°
Forward Voltage (V)	Typical	2.1	2.1	2
I_F=20mA	Max.	2.8	2.8	2.8

Θ½ is the off axis angle at which the luminous intensity is half the axial luminous intensity