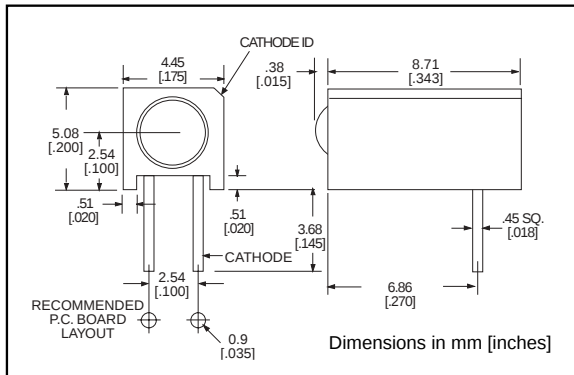


3mm

LED CBI® Circuit Board Indicator For Backlighting

Dialight

551-xx02



Standard Polarity shown in drawing: Cathode right

Features

- Multiple CBIs form horizontal LED arrays on 4.45mm (0.175") center-lines
- Extended housing and narrow viewing angle LEDs reduce light bleed
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 31.5%
- Polymer content: PBT, 2.242 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:
 - 553-22xx-100 Bi-Level
 - 564-2210-xxx Tri-Level
 - 568-221x-xxx Quad-Level

Tolerance note: As noted, otherwise:

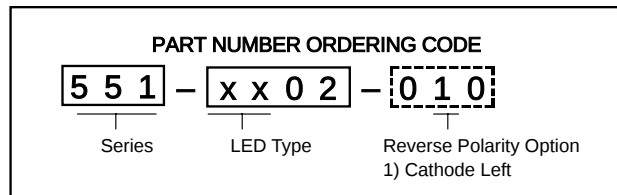
- LED Protrusion: ± 0.04 mm [± 0.016]
- CBI Housing: ± 0.02 mm [± 0.008]

PART NO.
HIGH EFFICIENCY, TINTED,
NON DIFFUSED
551-1502
551-1602
551-1702

COLOR

Green
Yellow
Red

To order any of the 551-xx02 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 @ TA=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 _v mcd	V _F Volts*	Test Current (mA)	Viewing Angle 2 $\theta_{\%}$	LED Data sheet	Page #
551-1502	Green	565	50	2.1	10	45°	521-9430	4-61
551-1602	Yellow	585	20	2.1	10	45°	521-9431	4-61
551-1702	Red	635	29	2	10	45°	521-9432	4-61

* I_F = 20mA

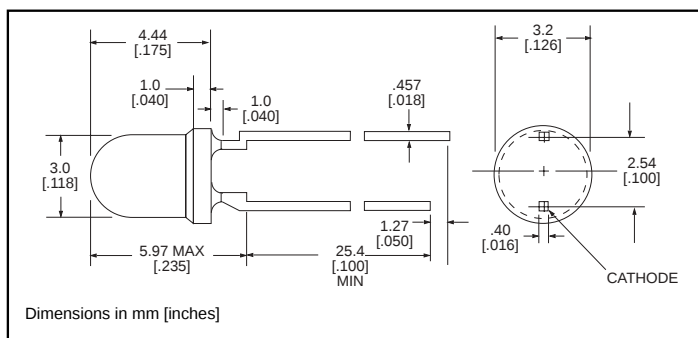
3mm Discrete LED

High Efficiency

Tinted, Non-Diffused

Dialight

521-9430, -9431, -9432



PART NO.

521-9430
521-9431
521-9432

COLOR

Green
Yellow
Red

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

4

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

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

		Green -9430	Yellow -9431	Red -9432
Luminous Intensity (mcd)	Min.	32	10	8.7
	Typical	50	20	29
Peak Wavelength (nm)	Typical	565	585	635
λ Peak				
Viewing Angle ($2\theta_{1/2}$)	Typical	45°	45°	45°
Forward Voltage (V)	Typical	2.1	2.1	2
	Max.	2.8	2.8	2.8
$I_F=20\text{mA}$				

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