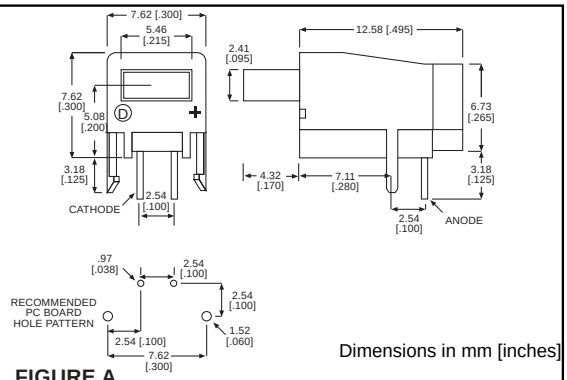
2mm x 5mm Rectangular
LED CBI® Circuit Board Indicator

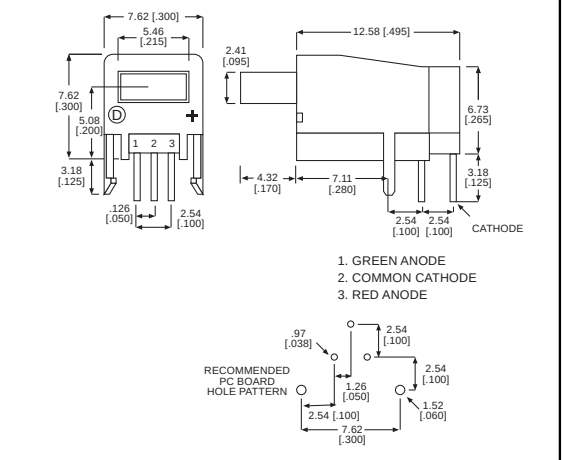
Dialight

566-xx07



Dimensions in mm [inches]

FIGURE A



Dimensions in mm [inches]

FIGURE B

PART NO.	COLOR	FIG.
566-0207	Green	A
566-0307	Yellow	A
566-0407	Red	A
BI-COLOR		
566-3507	Red/Green	B

Features

- Multiple CBIs form horizontal LED arrays on 10.16mm (0.400") center-lines.
- Available common cathode (3 leaded) multi-color option simplifies circuit designs
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.532 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)

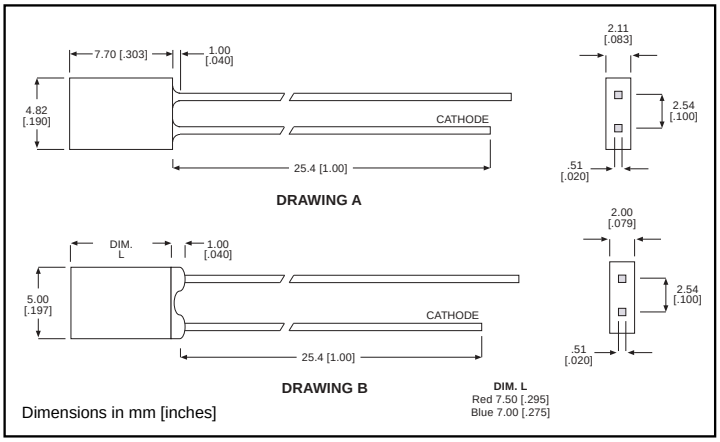
See LED data sheet for additional information
See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example
See Page 5-22 for Pin Out

Part Number	Color	Peak Wavelength nm	I_V mcd	V_F Volts	Test Current (mA)	Viewing Angle $2\Theta_{½}$	LED Data sheet	Page #
566-0207	Green	565	4	2.2	20	110°	521-9332	5-16
566-0307	Yellow	583	3.5	2.1	20	110°	521-9452	5-16
566-0407	Red	635	7.4	2	20	140°	521-9499	5-16
566-3507	Red/Green	635/565	3.5*/4*	1.9/2.1	10	100°	521-9406	5-17

** I_F = 20mA*

2mm x 5mm Discrete LED Rectangular Tinted, Diffused

521-9332, -9452, -9499, -9718



Dimensions in mm [inches]

PART NO.	COLOR	DRAWING
521-9332	Green	A
521-9452	Yellow	A
521-9499	Red	B
521-9718	Blue	B

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Green -9332	Yellow -9452	Red -9499	Blue -9718
Power Dissipation (mW)	135	85	100	189
Forward Current (mA)	30	20	30	30
Derating (mA/°C) *From 50°C 1. mW/°C From 25°C*	.5	.34	.4	.45[1]
Peak Current (mA) *Pulse width = 1 ms *Pulse width = 10 µs*	500*	500*	120	180
Operating Temperature (°C)	-20/+100	-55/+100	-55/+100	-25/+75
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-25/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case			

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

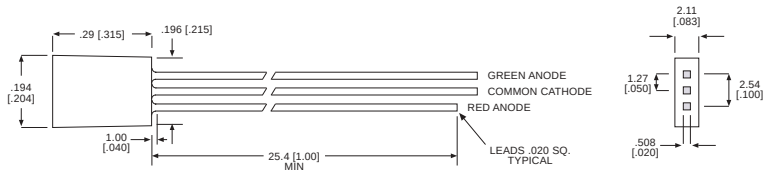
OPERATING CHARACTERISTICS (T_A=25°C)		Green -9332	Yellow -9452	Red -9499	Blue -9718
Luminous Intensity (mcd)	Min.	2.6	2.2	3	9
I_F=20mA	Typical	4	3.5	7.4	18
Peak Wavelength (nm) λ Peak	Typical	565	583	635	430
Viewing Angle (2Θ ½)	Typical	110°	110°	140°	120°
Forward Voltage (V)	Typical	2.2	2.1	2	5.3
I_F=20mA	Max.	3	2.6	2.8	6
Reverse Voltage (V), I_R=100µA	Min.	5	5	5	5

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

2mm x 5mm Discrete LED
Bi-Color LED, Common Cathode
Non-Tinted, Diffused

Dialight

521-9406



Dimensions in mm [inches]

PART NO.	COLOR
521-9406	Red/Green

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Red/Green **-9406**
Power Dissipation (mW)	135/135
Derating (mW/°C) *From 25°C*	1.8/1.8
Forward Current (mA)	25/25
Peak Current (mA) *Pulse width = 10 µs*	90/90
Operating Temperature (°C)	-20/+85
Storage Temperature (°C)	-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/Green **-9406**
Luminous Intensity (mcd)	Min.	2.1/2.6
I_F=20mA	Typical	3.5/4
Peak Wavelength (nm)	Typical	635/565
λ Peak		
Viewing Angle (2Θ ½)	Typical	100°
Forward Voltage (V)	Typical	1.9/2.1
I_F=10mA	Max.	2.4/2.7

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

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