Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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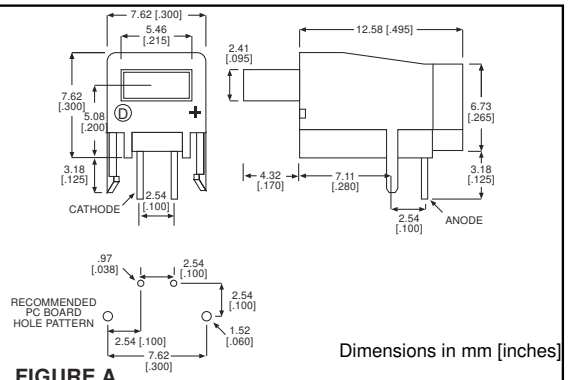
2mm x 5mm Rectangular
LED CBI® Circuit Board Indicator

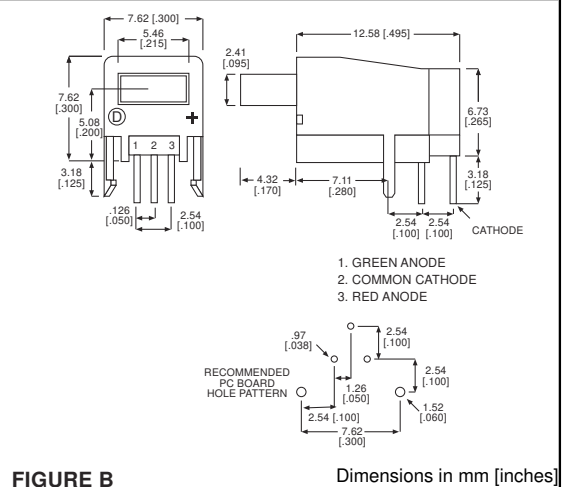
Dialight

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)

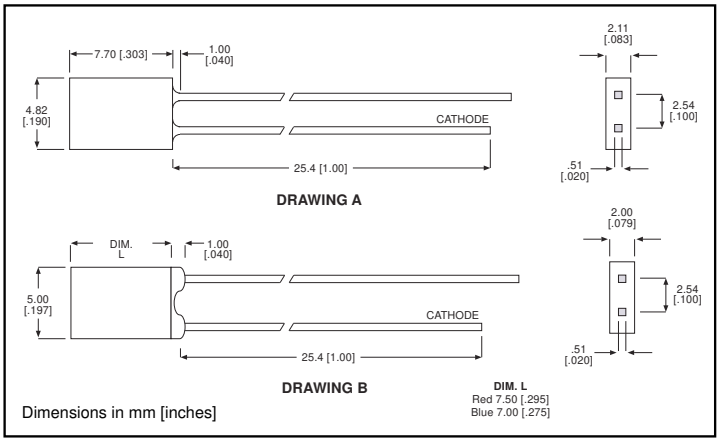
See LED data sheet for additional information
See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example
See Page 5-22 for Pin Out

Part Number	Color	Peak Wavelength nm	I_V mcd	V_F Volts	Test Current (mA)	Viewing Angle 2Θ½	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

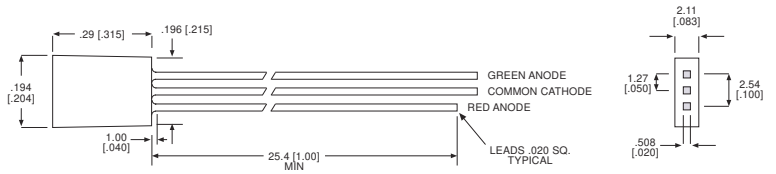
OPERATING CHARACTERISTICS (T_A=25°C)		Green -9332	Yellow -9452	Red -9499	Blue -9718
Luminous Intensity (mcd)	Min.	2.6	2.2	3	9
I_F=20mA	Typical	4	3.5	7.4	18
Peak Wavelength (nm) λ Peak	Typical	565	583	635	430
Viewing Angle (2Θ ½)	Typical	110°	110°	140°	120°
Forward Voltage (V)	Typical	2.2	2.1	2	5.3
I_F=20mA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