



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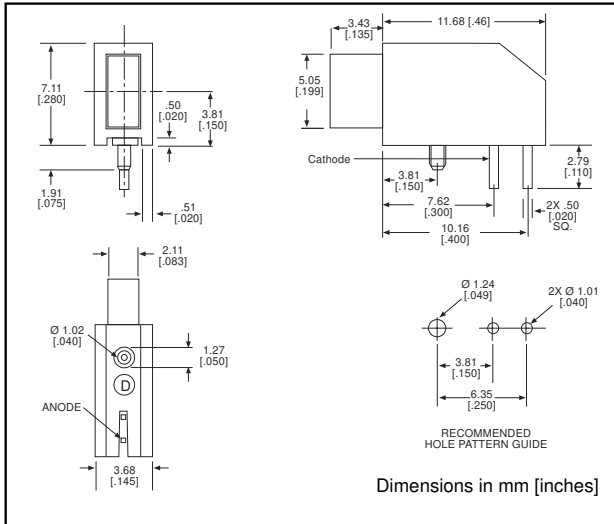
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# 2mm x 5mm Rectangular LED CBI® Circuit Board Indicator

# Dialight

## 566-xx06



**PART NO.**  
566-0206  
566-0306  
566-0406

**COLOR**  
Green  
Yellow  
Red

### Features

- Multiple CBIs form horizontal LED arrays on 3.96mm (0.156") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.309 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:  $\pm 0.04$  mm [ $\pm 0.016$ ]
- CBI Housing:  $\pm 0.02$ mm [ $\pm 0.008$ ]

5

### Typical Operating Characteristics ( $T_A=25^\circ\text{C}$ )

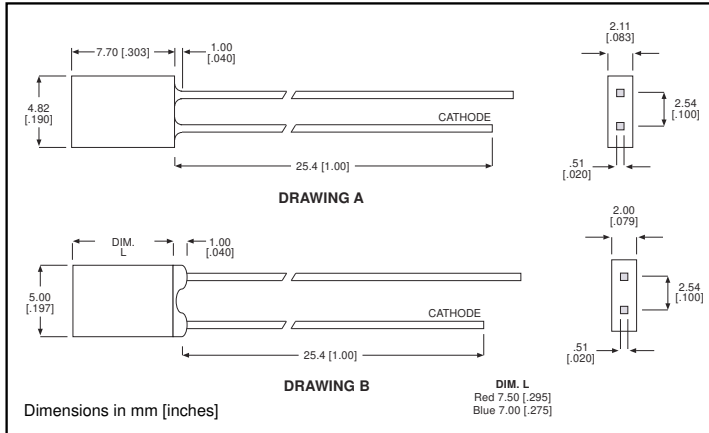
See LED data sheet for additional information  
See Page 5-20 and 5-21 for Reference Only LED Drive Circuit Example  
See Page 5-22 for Pin Out

Part Number	Color	Peak Wavelength nm	I <sub>v</sub> mcd	V <sub>f</sub> Volts	Test Current (mA)	Viewing Angle 2 $\theta_{1/2}$	LED Data sheet	Page #
566-0206	Green	565	4	2.2	20	110°	521-9332	5-16
566-0306	Yellow	583	3.5	2.1	20	110°	521-9452	5-16
566-0406	Red	635	7.4	2	20	140°	521-9499	5-16

2mm x 5mm Discrete LED  
 Rectangular  
 Tinted, Diffused

**Dialight**

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



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

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

	Green <b>-9332</b>	Yellow <b>-9452</b>	Red <b>-9499</b>	Blue <b>-9718</b>
Power Dissipation (mW)	135	85	100	189
Forward Current (mA)	30	20	30	30
Derating (mA/ $^\circ\text{C}$ ) From 50 $^\circ\text{C}$ 1. mW/ $^\circ\text{C}$ From 25 $^\circ\text{C}$	.5	.34	.4	.45 <sup>1</sup>
Peak Current (mA)	500*	500*	120	180
<i>Pulse width = 1 ms *Pulse width = 10 <math>\mu\text{s}</math></i>				
Operating Temperature ( $^\circ\text{C}$ )	-20/+100	-55/+100	-55/+100	-25/+75
Storage Temperature ( $^\circ\text{C}$ )	-55/+100	-55/+100	-55/+100	-25/+100
Soldering Temperature	260 $^\circ\text{C}$ , 5 seconds, 1.6 mm from case			

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

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

		Green <b>-9332</b>	Yellow <b>-9452</b>	Red <b>-9499</b>	Blue <b>-9718</b>
Luminous Intensity (mcd)	Min.	2.6	2.2	3	9
	Typical	4	3.5	7.4	18
Peak Wavelength (nm)		565	583	635	430
$\lambda$ Peak					
Viewing Angle ( $2\theta$ $^{1/2}$ )	Typical	110 $^\circ$	110 $^\circ$	140 $^\circ$	120 $^\circ$
Forward Voltage (V)	Typical	2.2	2.1	2	5.3
	Max.	3	2.6	2.8	6
Reverse Voltage (V), $I_R=100\mu\text{A}$	Min.	5	5	5	5

<sup>1</sup>  $\theta$  is the off axis angle at which the luminous intensity is half the axial luminous intensity