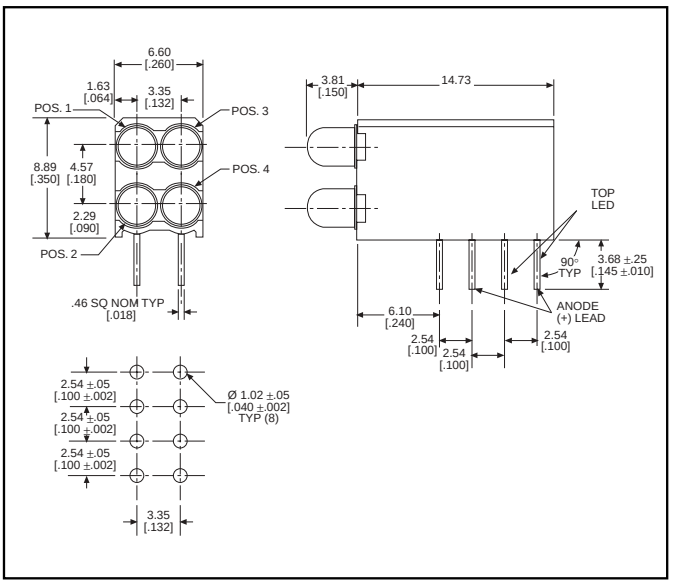
3mm
LED CBI® Circuit Board Indicator
High Density Dual Bi-Level

Dialight

569-010x-xxx



PART NO.	COLOR*
569-0101-111	Red
569-0102-222	Green
569-0103-333	Yellow
569-0107-777	Orange
569-0108-888	Blue[3]

NEW

* LED 1, LED 2, LED 3, LED 4

Features

- Multiple CBIs form horizontal LED arrays on 3.35mm (0.132") center-lines
- High Contrast, UL 94 V-0 rated, black housing
- Oxygen index: 32%
- Polymer content: PBT, 0.860 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:
  569-011x-x00 Narrow Bi-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]

4

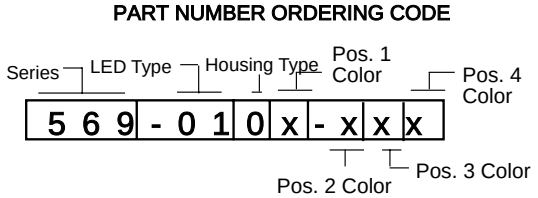
Typical Operating Characteristics (T_A=25°C)

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

Part Number	Color	Peak Wavelength nm	I_V mcd	V_F Volts	Test Current (mA)	Viewing Angle 2Θ½	LED Data sheet	Page #
569-0101-111	Red	635	10	2*	10	60°	521-9216	4-58
569-0102-222	Green	565	12.6	2.1*	10	60°	521-9210	4-58
569-0103-333	Yellow	585	10	2.1*	10	60°	521-9211	4-58
569-0107-777	Orange	600	7	2.2	10	60°	521-9498	4-58
569-0108-888	Blue	428	12	3.5	10	70°	521-9831	4-57

* I_F=20mA

PART NUMBER ORDERING CODE



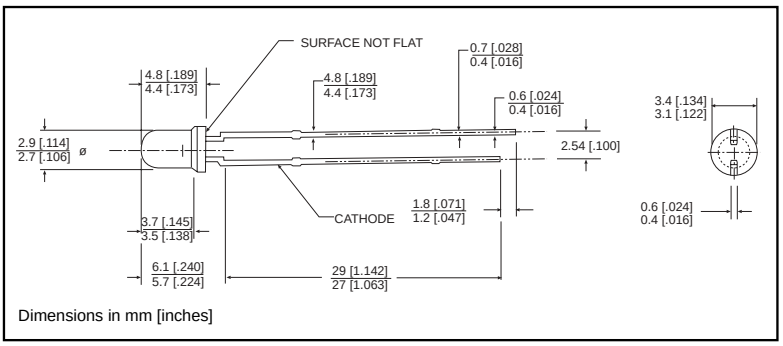
Color = 0) Blank 1) Red 2) Green 3) Yellow 7) Orange 8) Blue

3mm Discrete LED
Tinted, Diffused

NEW

Dialight

521-9831



Dimensions in mm [inches]

PART NO.	COLOR
521-9831	Blue [3]

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

[3]

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

4

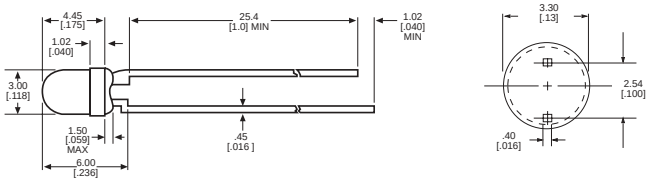
ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Blue **-9831**
Power Dissipation (mW)	100
Forward Current (mA)	20
Derating (mA/°C) *From 55°C*	.44
Operating Temperature (°C)	-40/+100
Storage Temperature (°C)	-40/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from case

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

OPERATING CHARACTERISTICS (T_A=25°C)		Blue **-9831**
Luminous Intensity (mcd)	Min.	6.3
I_F=10mA	Typical	12
Peak Wavelength (nm)	Typical	428
λ Peak		
Viewing Angle (2Θ½)	Typical	70°
Forward Voltage (V)	Typical	3.5
I_F=10mA	Max.	4.2
Reverse Voltage (V) IR=10µA	Min.	3

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

3mm Discrete LED
High Efficiency
Diffused 521-9210, -9211, -9216, -9498, -9636



short lead cathode all colors except 521-9636 Red.
For 521-9636 Red, short lead is anode.

Dimensions in mm [inches]

PART NO.	COLOR
521-9210	Green
521-9211	Yellow
521-9216	Red
521-9498	Orange
521-9636	Red

NEW

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

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)	Green **-9210**	Yellow **-9211**	Red **-9216**	Orange **-9498**	Red **-9636**
Power Dissipation (mW)	100	60	100	135	100
Forward Current (mA)	30	20	30	25	40
Derating (mA/°C) *From 50°C* [1] from 25°C	.4	.25	.4	.5	.5[1]
Operating Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Storage Temperature (°C)	-55/+100	-55/+100	-55/+100	-55/+100	-55/+100
Soldering Temperature	260°C, 5 seconds, 1.6 mm from body				

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

OPERATING CHARACTERISTICS (T_A=25°C)		Green **-9210**	Yellow **-9211**	Red **-9216**	Orange **-9498**	Red **-9636**
Luminous Intensity (mcd)	Min.	4.7	7.4	7.4	3.4	8.7[1]
I_F=10mA [1] I_F=20mA	Typical	12.6	10	10	7	48[1]
Peak Wavelength (nm) λ Peak	Typical	565	585	635	600	660
Viewing Angle (2Θ ½)	Typical	60°	60°	60°	60°	60°
Forward Voltage (V)	Typical	2.1[1]	2.1[1]	2[1]	2.2	1.8[1]
I_F=10mA [1] I_F=20mA	Max.	2.8[1]	2.8[1]	2.8[1]	3	2.4[1]
Reverse Voltage (V), I_R=100µA	Max.	5	5	5	5	4

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