

**Dialight**  
569-011x-x00

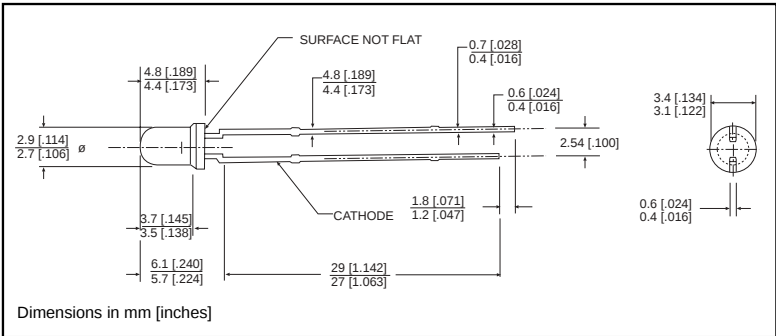




3mm Discrete LED  
Tinted, Diffused



521-9831



PART NO.

521-9831

COLOR

Blue<sup>3</sup>

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



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ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=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<sub>A</sub>=25°C)

Blue  
-9831

|                                          |         |     |
|------------------------------------------|---------|-----|
| Luminous Intensity (mcd)                 | Min.    | 6.3 |
| I <sub>F</sub> =10mA                     | Typical | 12  |
| Peak Wavelength (nm)                     | Typical | 428 |
| λ Peak                                   |         |     |
| Viewing Angle (2Θ½)                      | Typical | 70° |
| Forward Voltage (V)                      | Typical | 3.5 |
| I <sub>F</sub> =10mA                     | Max.    | 4.2 |
| Reverse Voltage (V) I <sub>R</sub> =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

# Dialight

## 521-9210, -9211, -9216, -9498, -9636



### PART NO. COLOR

521-9210 Green

521-9211 Yellow

521-9216 Red

521-9498 Orange

521-9636 Red



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

| <b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_A=25^\circ\text{C}$ ) | Green<br><b>-9210</b>              | Yellow<br><b>-9211</b> | Red<br><b>-9216</b> | Orange<br><b>-9498</b> | Red<br><b>-9636</b> |
|------------------------------------------------------------|------------------------------------|------------------------|---------------------|------------------------|---------------------|
| Power Dissipation (mW)                                     | 100                                | 60                     | 100                 | 135                    | 100                 |
| Forward Current (mA)                                       | 30                                 | 20                     | 30                  | 25                     | 40                  |
| Derating (mA/°C) From 50°C <sup>1</sup> from 25°C          | .4                                 | .25                    | .4                  | .5                     | .5 <sup>1</sup>     |
| 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

| <b>OPERATING CHARACTERISTICS</b> ( $T_A=25^\circ\text{C}$ ) |                         | Green<br><b>-9210</b> | Yellow<br><b>-9211</b> | Red<br><b>-9216</b> | Orange<br><b>-9498</b> | Red<br><b>-9636</b> |
|-------------------------------------------------------------|-------------------------|-----------------------|------------------------|---------------------|------------------------|---------------------|
| Luminous Intensity (mcd)                                    | Min.                    | 4.7                   | 7.4                    | 7.4                 | 3.4                    | 8.7 <sup>1</sup>    |
|                                                             | Typical                 | 12.6                  | 10                     | 10                  | 7                      | 48 <sup>1</sup>     |
| Peak Wavelength (nm)                                        | Typical                 | 565                   | 585                    | 635                 | 600                    | 660                 |
|                                                             | $\lambda_{\text{Peak}}$ |                       |                        |                     |                        |                     |
| Viewing Angle ( $2\theta^\circ$ )                           | Typical                 | 60°                   | 60°                    | 60°                 | 60°                    | 60°                 |
| Forward Voltage (V)                                         | Typical                 | 2.1 <sup>1</sup>      | 2.1 <sup>1</sup>       | 2 <sup>1</sup>      | 2.2                    | 1.8 <sup>1</sup>    |
|                                                             | Max.                    | 2.8 <sup>1</sup>      | 2.8 <sup>1</sup>       | 2.8 <sup>1</sup>    | 3                      | 2.4 <sup>1</sup>    |
| Reverse Voltage (V), $I_R=100\mu\text{A}$                   | Max.                    | 5                     | 5                      | 5                   | 5                      | 4                   |

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