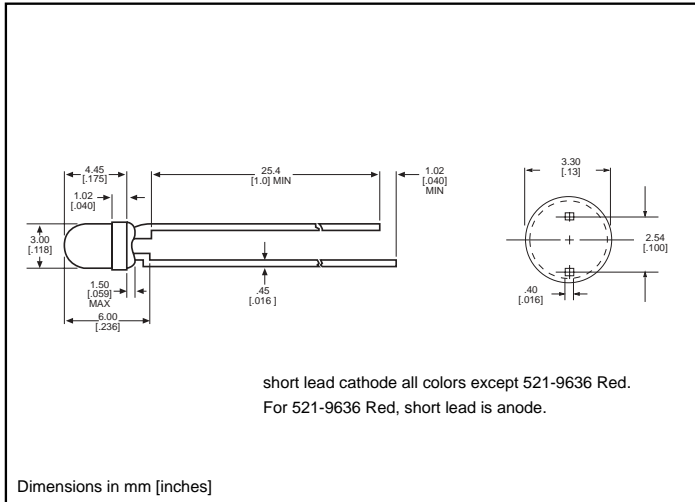


**3mm Discrete LED**  
**High Efficiency**  
**Diffused**



**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 <sub>A</sub> =25°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 1 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 <sub>A</sub> =25°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>    |
|   | I <sub>F</sub> =10mA 1 I <sub>F</sub> =20mA | Typical               | 12.6                   | 10                  | 10                     | 7                   |
| Peak Wavelength (nm)                                    | Typical                                     | 565                   | 585                    | 635                 | 600                    | 660                 |
| λ Peak  |   |                       |                        |                     |                        |                     |
| Viewing Angle (2θ °)                                    | 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>    |
|   | I <sub>F</sub> =10mA 1 I <sub>F</sub> =20mA | Max.                  | 2.8 <sup>1</sup>       | 2.8 <sup>1</sup>    | 2.8 <sup>1</sup>       | 3                   |
| Reverse Voltage (V), I <sub>R</sub> =100µA              | Max.  | 5                     | 5                      | 5                   | 5                      | 4                   |

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