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## NTE30108 LED – Dual Color 5mm Super Red/Yellow Green

**Features:**

- RoHS Compliant
- White Diffused

**Absolute Maximum Ratings:** ( $T_A = +25^{\circ}\text{C}$  unless otherwise specified)

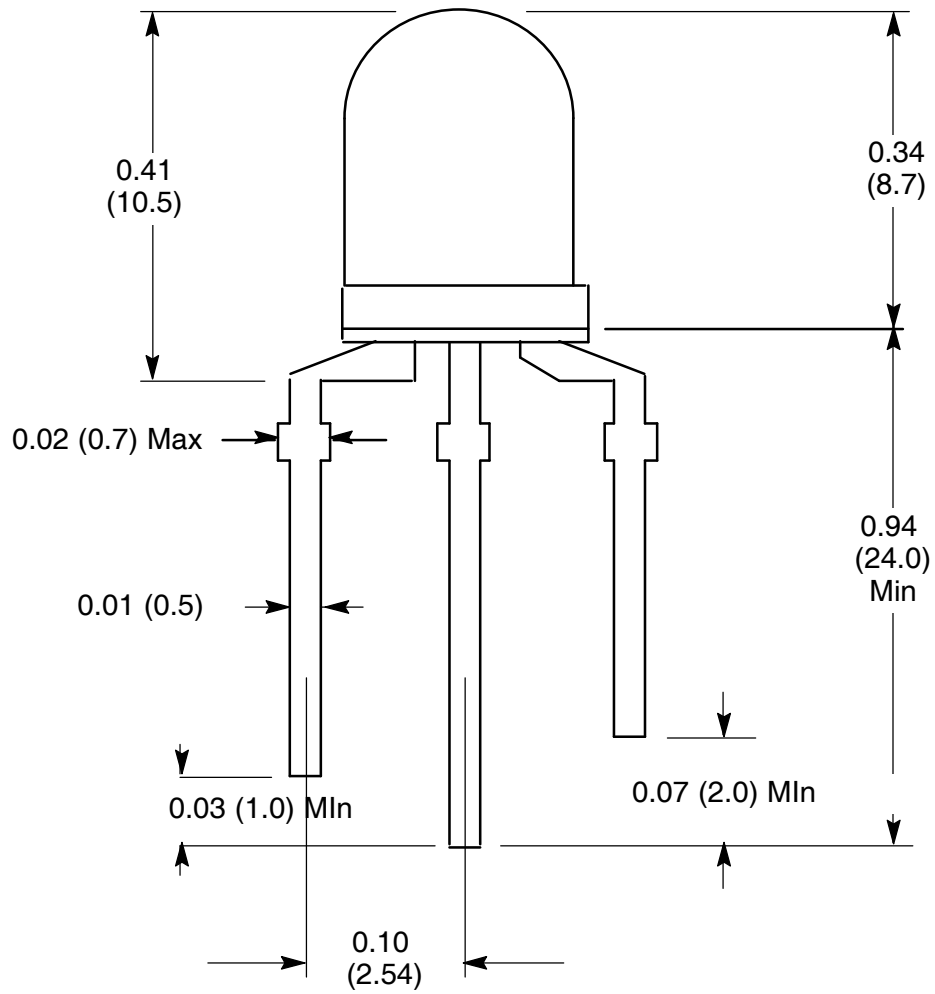
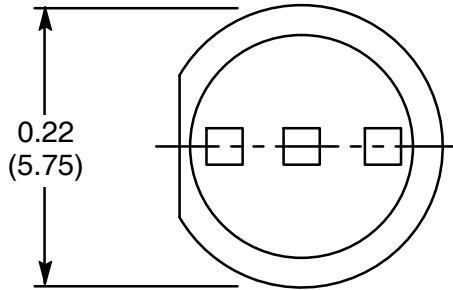
|  |                 |  |
|--|-----------------|--|
| Power Dissipation, $P_d$   |                 |  |
| Super Red  | 110mW           |  |
| Yellow Green   | 84mW            |  |
| Continuous Forward Current, $I_F$  |                 |  |
| Super Red  | 30mA            |  |
| Yellow Green   | 25mA            |  |
| Peak Forward Current (1/10 Duty Ratio, 0.1ms Pulse Width), $I_{FM}$          | 50mA            |  |
| Reverse Voltage, $V_R$   | 5V              |  |
| LED Junction Temperature, $T_j$  | +100°C          |  |
| Operating Temperature Range, $T_{opr}$                                       | -25°C to +80°C  |  |
| Storage Temperature Range, $T_{stg}$   | -40°C to +100°C |  |
| DIP Soldering Temperature (During Soldering, 3mm from body, 5sec max), $T_L$ | +260°C          |  |

**Electro-Optical Characteristics:** ( $T_A = +25^{\circ}\text{C}$  unless otherwise specified)

| Parameter                     | Symbol                  | Test Conditions     | Min | Typ  | Max  | Unit |
|-------------------------------|-------------------------|---------------------|-----|------|------|------|
| View Angle of Half Power      | $2\theta_{1/2}$         | $I_F = 20\text{mA}$ | -   | 40   | -    | deg  |
| Forward Voltage               | VF                      | $I_F = 20\text{mA}$ | -   | 1.80 | 2.40 | V    |
| Super Red                     |                         |                     |     | 2.15 | 2.80 | V    |
| Luminous Intensity (Note 1)   | IV                      | $I_F = 20\text{mA}$ | 50  | 100  | -    | mcd  |
| Super Red                     |                         |                     |     | 20   | 40   | -    |
| Peak Emission Wavelength      | $\lambda_p$             | $I_F = 20\text{mA}$ | -   | 660  | -    | nm   |
| Super Red                     |                         |                     |     | 570  | -    | nm   |
| Dominant Wave Length (Note 2) | $\lambda_d(\text{HUE})$ | $I_F = 20\text{mA}$ | -   | 643  | -    | nm   |
| Super Red                     |                         |                     |     | 567  | -    | nm   |
| Yellow Green                  |                         |                     |     |      |      |      |

Note 1. Luminous intensity is measured with an Exeltron 2001, Tolerance = 30%.

Note 2. The dominant wavelength,  $\lambda_d$ , is derived from the CIE Chromaticity Diagram and represents the color of the device.



- 1. Red -
- 2. Common Lead +
- 3. Green -