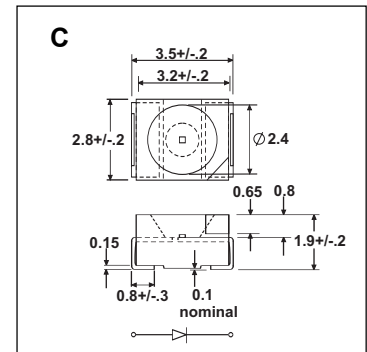
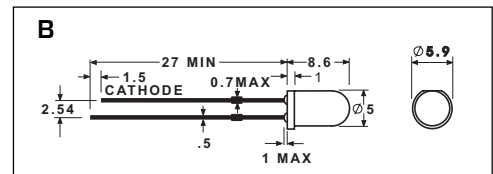
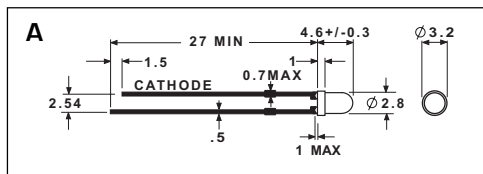




## T-1 and T-1<sup>3/4</sup> Ultra Bright Blue LEDs

|        | Line No. | Part No. | Size               | Lens  | Luminous Intensity at 20mA |         | Viewing Angle 20° | Forward Voltage at 20mA |         | Reverse Current (V <sub>R</sub> =5.0V) | Peak Wavelength at 20mA | Drawing |
|--------|----------|----------|--------------------|-------|----------------------------|---------|-------------------|-------------------------|---------|----------------------------------------|-------------------------|---------|
|        |          |          |                    |       | Minimum                    | Typical |                   | Typical                 | Maximum |                                        |                         |         |
| ○ BLUE | 1        | E480     | T-1                | Clear | 380mcd                     | 650mcd  | 20°               | 3.7V                    | 4.1V    | 10μA                                   | 460nm                   | A       |
| ○ BLUE | 2        | E481     | T-1 <sup>3/4</sup> | Clear | 650mcd                     | 1400mcd | 16°               | 3.7V                    | 4.1V    | 10μA                                   | 460nm                   | B       |

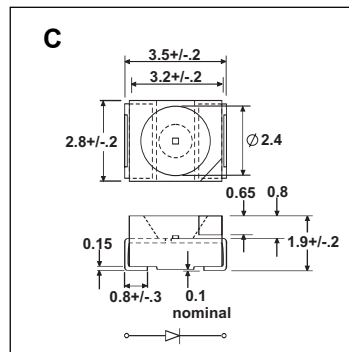
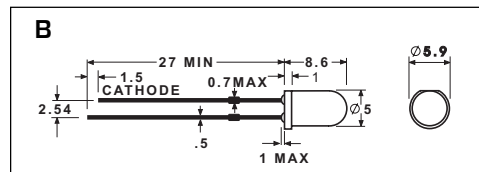
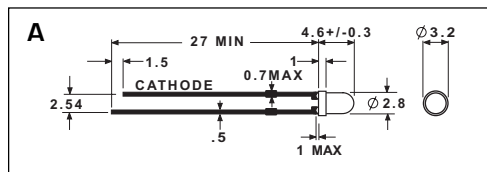
## T-1, T-1<sup>3/4</sup> and SMT Ultra Bright Green LEDs

|         | Line No. | Part No. | Size               | Lens  | Luminous Intensity at 20mA |         | Viewing Angle 20° | Forward Voltage at 20mA |         | Reverse Current (V <sub>R</sub> =5.0V) | Peak Wavelength at 20mA | Drawing |
|---------|----------|----------|--------------------|-------|----------------------------|---------|-------------------|-------------------------|---------|----------------------------------------|-------------------------|---------|
|         |          |          |                    |       | Minimum                    | Typical |                   | Typical                 | Maximum |                                        |                         |         |
| ○ GREEN | 3        | E904     | T-1                | Clear | 15000mcd                   | 2000mcd | 34°               | 4.0V                    | 4.5V    | 10μA                                   | 518nm                   | A       |
| ○ GREEN | 4        | E905     | T-1 <sup>3/4</sup> | Clear | 2800mcd                    | 4500mcd | 20°               | 4.0V                    | 4.5V    | 10μA                                   | 518nm                   | B       |
| ○ GREEN | 5        | E73-UB   | SMT                | Clear | 110mcd                     | 280mcd  | 120°              | 4.0V                    | 4.5V    | 10μA                                   | 518nm                   | C       |

## T-1<sup>3/4</sup> Ultra Bright Red LED

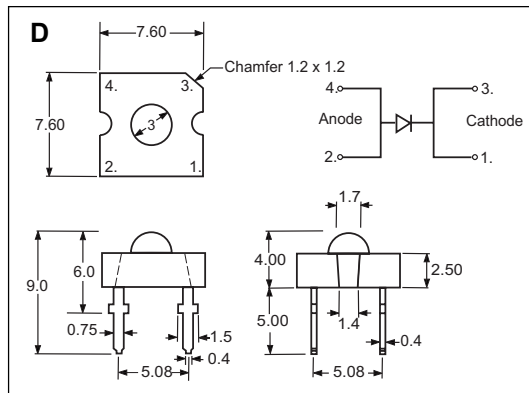
|       | Line No. | Part No. | Size               | Lens  | Luminous Intensity at 20mA |         | Viewing Angle 20° | Forward Voltage at 20mA |         | Reverse Current (V <sub>R</sub> =5.0V) | Peak Wavelength at 20mA | Drawing |
|-------|----------|----------|--------------------|-------|----------------------------|---------|-------------------|-------------------------|---------|----------------------------------------|-------------------------|---------|
|       |          |          |                    |       | Minimum                    | Typical |                   | Typical                 | Maximum |                                        |                         |         |
| ○ RED | 6        | E185     | T-1 <sup>3/4</sup> | Clear | 3500mcd                    | 4000mcd | 20°               | 1.85V                   | 2.5V    | 10μA                                   | 660nm                   | B       |

## NEW LEDs



## T-1, T-1<sup>3/4</sup> and SMT Bright White LEDs

|         | Line No. | Part No. | Size               | Lens  | Luminous Intensity at 20mA |         | Viewing Angle 2θ <sup>1/2</sup> | Forward Voltage at 20mA |         | Reverse Current (V <sub>R</sub> =5.0V) | Chromaticity Coordinates |        | Drawing |
|---------|----------|----------|--------------------|-------|----------------------------|---------|---------------------------------|-------------------------|---------|----------------------------------------|--------------------------|--------|---------|
|         |          |          |                    |       | Minimum                    | Typical |                                 | Typical                 | Maximum |                                        | X Typ.                   | Y Typ. |         |
| ○ WHITE | 1        | E1007    | T-1                | Clear | 50mcd                      | 180mcd  | 50°                             | 3.8V                    | 4.5V    | 10μA                                   | 0.31                     | 0.32   | A       |
| ○ WHITE | 2        | E1006    | T-1 <sup>3/4</sup> | Clear | 80mcd                      | 200mcd  | 30°                             | 3.8V                    | 4.5V    | 10μA                                   | 0.31                     | 0.32   | B       |
| ○ WHITE | 3        | E1008    | SMT                | Clear | 90mcd                      | 150mcd  | 120°                            | 3.5V                    | 4.0V    | 10μA                                   | 0.31                     | 0.32   | C       |



## Super Flux LEDs

|          | Line No. | Part No. | Lens  | Luminous Intensity at 20mA |                     | Viewing Angle 2θ <sup>1/2</sup> | Forward Voltage at 20mA |      | Reverse Current (V <sub>R</sub> =5.0V) | Peak Wavelength at 20mA | Drawing |
|----------|----------|----------|-------|----------------------------|---------------------|---------------------------------|-------------------------|------|----------------------------------------|-------------------------|---------|
|          |          |          |       | Minimum                    | Typical (**at 70mA) |                                 | Typical                 | Max. |                                        |                         |         |
| ○ GREEN  | 4        | E601     | Clear | 180mcd<br>**480mcd         | 300mcd<br>**900mcd  | 70°                             | 2.1V                    | 2.5V | 10μA                                   | 574nm                   | D       |
| ○ YELLOW | 5        | E602     | Clear | 200mcd<br>**300mcd         | 400mcd<br>**700mcd  | 70°                             | 2.0V                    | 2.5V | 10μA                                   | 590nm                   | D       |
| ○ ORANGE | 6        | E603     | Clear | 300mcd<br>**1300mcd        | 600mcd<br>**1800mcd | 70°                             | 2.0V                    | 2.5V | 10μA                                   | 610nm                   | D       |
| ○ RED    | 7        | E604     | Clear | 300mcd<br>**700mcd         | 600mcd<br>**1000mcd | 70°                             | 1.9V                    | 2.5V | 10μA                                   | 640nm                   | D       |

\*For long term performance, an operating current between 10mA and 30mA is recommended.