

## DESCRIPTION

This is a dual high radiance 660 nm visible and 940 nm infrared emitting LED Assembly, designed for medical ratio-metric measurements.

## FEATURES

- ☐ Visible and infrared power emissions
- ☐ High Reliability
- ☐ Small surface mount ceramic substrate
- ☐ 3-Terminal Common Anode Electrical connection

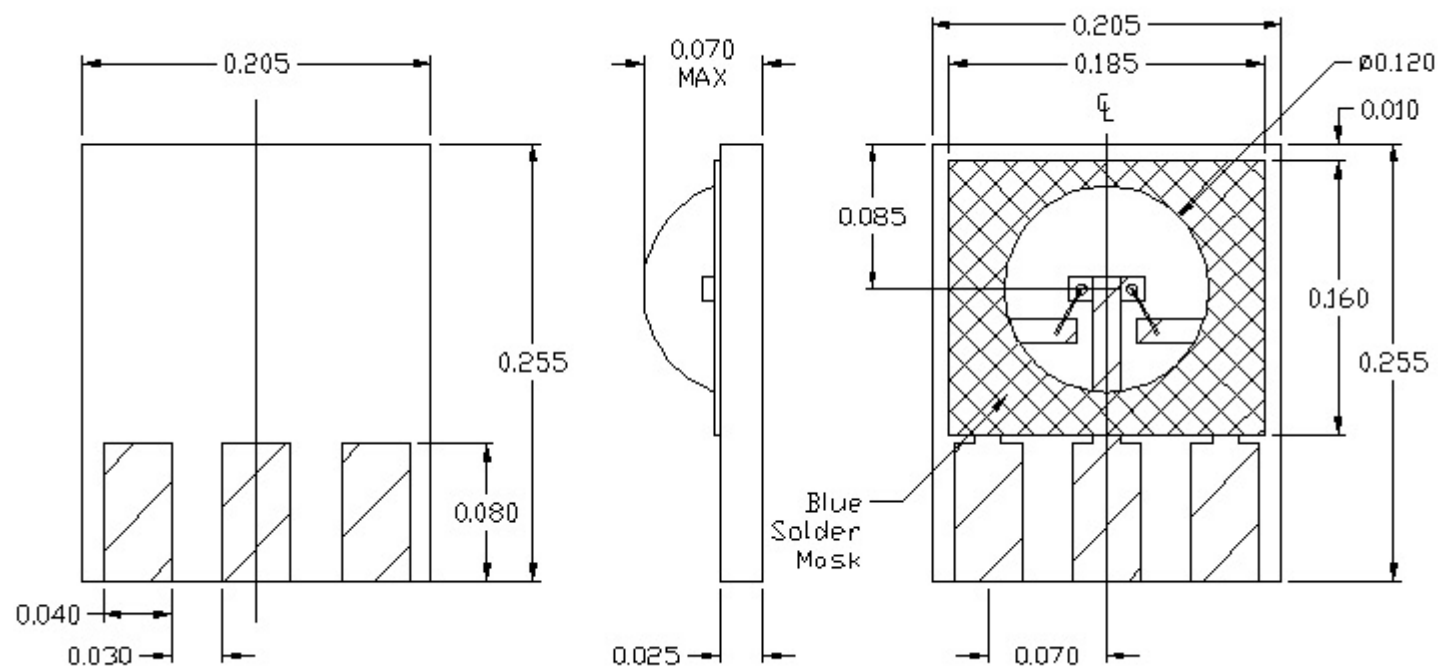
## ABSOLUTE MAXIMUM RATINGS

- ☐ Storage temperature..... -40°C to +80°C
- ☐ Case operating temperature..... -40°C to +80°C
- ☐ Solder temperature..... 240°C, 3 seconds
- ☐ Reverse Voltage..... 5 Volts

## ELECTRO-OPTICAL CHARACTERISTICS (Case T = 25°C)

| PARAMETER                          | TEST CONDITION         | SYMBOL          | MIN | TYP | MAX | UNIT  |
|------------------------------------|------------------------|-----------------|-----|-----|-----|-------|
| Forward Voltage (660 nm)           | If = 20 mA             | V <sub>f1</sub> |     | 1.8 | 2.4 | Volts |
| Forward Voltage (940 nm)           | If = 20 mA             | V <sub>f2</sub> |     | 1.3 | 1.5 | Volts |
| Reverse Breakdown Voltage (660 nm) | I <sub>r</sub> = 10 µA | BVR             | 5   |     |     | Volts |
| Reverse Breakdown Voltage (940 nm) | I <sub>r</sub> = 10 µA | BVR             | 5   |     |     | Volts |
| Radiant Flux (660 nm)              | If = 20 mA             | Po1             | 1.5 | 1.9 |     | mW    |
| Radiant Flux (940 nm)              | If = 20 mA             | Po2             | 1.0 | 1.9 |     | mW    |
| Peak Wavelength (660 nm)           | If = 20 mA             | λ <sub>p</sub>  | 655 | 660 | 665 | nm    |
| Peak Wavelength (940 nm)           | If = 20 mA             | λ <sub>p</sub>  | 925 | 940 | 955 | nm    |
| Spectral Bandwidth (660 nm)        | If = 20 mA, FWHM       | Δλ              |     | 25  |     | nm    |
| Spectral Bandwidth (940 nm)        | If = 20 mA, FWHM       | Δλ              |     | 50  |     | nm    |
| Rise/Fall Time (660 nm)            | If = 20 mA             | tr/tf           |     | 0.8 |     | µsec  |
| Rise/Fall Time (940 nm)            | If = 20 mA             | tr/tf           |     | 0.8 |     | µsec  |

## OUTLINE DIMENSIONS



Tolerances are +/-0.005 inches, except as noted

## ELECTRICAL SCHEMATIC

