

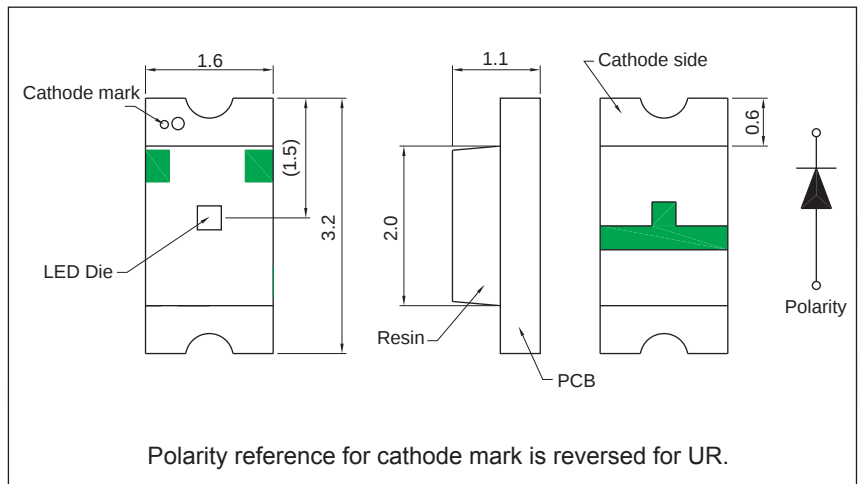
### Features

- Chip LED (3.2x1.6x1.1)
- Super compact

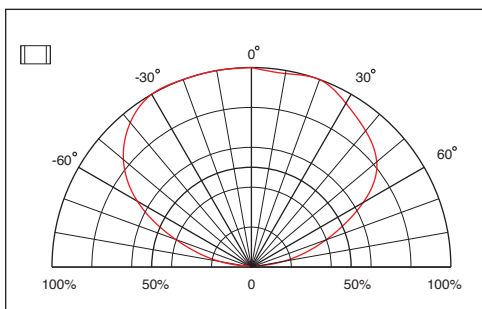
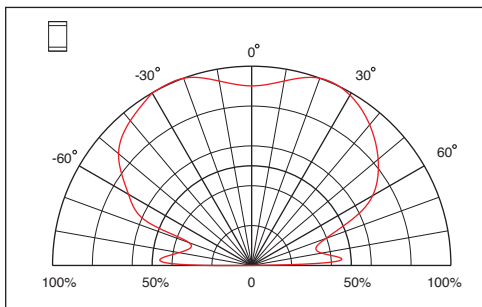


### Package Outline Dimensions

(Unit:mm Tolerance:±0.1)

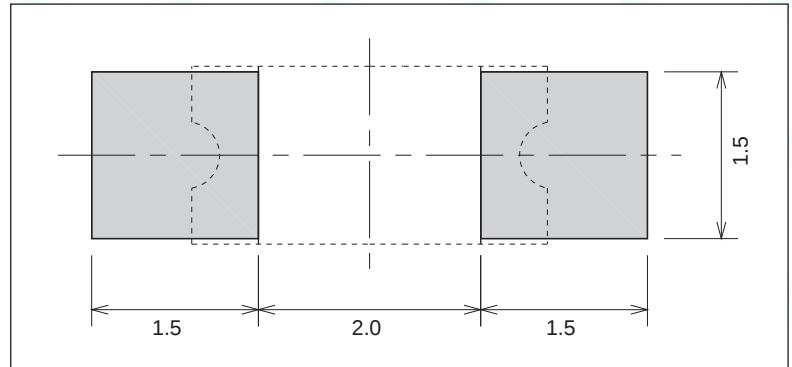


### Directive Characteristics



### Recommended Soldering Pattern

Unit: mm



### Absolute Maximum Ratings

(Ta=25 °C)

| Item                   | Symbol   | GaP       | GaAsP | AlGaAs | AlInGaP | InGaN | Unit |
|------------------------|----------|-----------|-------|--------|---------|-------|------|
| Power Dissipation      | $P_D$    | 65        | 65    | 66     | 72      | 78    | mW   |
| DC Forward Current     | $I_F$    | 25        | 25    | 30     | 30      | 20    | mA   |
| Pulsed Forward Current | $I_{FP}$ | 100       | 100   | 100    | 100     | 80    | mA   |
| Reverse Voltage        | $V_R$    | 5         |       |        |         |       | V    |
| Operating Temperature  | $T_{OP}$ | -30 to 80 |       |        |         |       | °C   |
| Storage Temperature    | $T_{ST}$ | -40 to 85 |       |        |         |       | °C   |

\* 0.1msec pulse, 10% duty cycle.

## Electrical / Optical Characteristics

(Ta=25 °C)

| Part Number | Emitting color            | Material | Forward Voltage(V <sub>F</sub> ) |      | Wavelength (nm) typ. |                |    | Luminous Intensity (mcd)* |      | I <sub>F</sub> (mA) | Viewing Angle 2θ <sub>1/2</sub> |
|-------------|---------------------------|----------|----------------------------------|------|----------------------|----------------|----|---------------------------|------|---------------------|---------------------------------|
|             |                           |          | typ.                             | max. | λ <sub>D</sub>       | λ <sub>P</sub> | Δλ | min.                      | typ. |                     |                                 |
| HT-150YG    | Yellow Green              | GaP      | 2.2                              | 2.6  | 573                  | 568            | 30 | 9                         | 20   | 20                  | 140                             |
| HT-150Y     | Yellow                    | GaAsP    | 2.1                              | 2.6  | 590                  | 589            | 35 | 3.6                       | 9    | 20                  | 140                             |
| HT-150D     | Amber                     | GaAsP    | 2.1                              | 2.6  | 608                  | 610            | 35 | 6.2                       | 9    | 20                  | 140                             |
| HT-150SD    | Super Bright Orange       | GaAsP    | 2.1                              | 2.6  | 629                  | 642            | 35 | 5.6                       | 14   | 20                  | 140                             |
| HT-150UR    | Super Bright Red          | AlGaAs   | 1.8                              | 2.2  | 643                  | 660            | 20 | 9                         | 21   | 20                  | 140                             |
| HT-150UYG   | Ultra Bright Yellow Green | AlInGaP  | 2.0                              | 2.4  | 573                  | 574            | 20 | 35                        | 60   | 20                  | 140                             |
| HT-150UY    | Ultra Bright Yellow       | AlInGaP  | 1.9                              | 2.4  | 591                  | 593            | 15 | 40                        | 90   | 20                  | 140                             |
| HT-150UD    | Ultra Bright Amber        | AlInGaP  | 1.9                              | 2.4  | 605                  | 609            | 17 | 50                        | 120  | 20                  | 140                             |
| HT-150USD   | Ultra Bright Orange       | AlInGaP  | 1.9                              | 2.4  | 622                  | 636            | 17 | 50                        | 120  | 20                  | 140                             |
| HT-150NB    | Blue                      | InGaN    | 3.3                              | 3.9  | 470                  | 468            | 40 | 25                        | 70   | 20                  | 140                             |
| HT-150NG    | Green                     | InGaN    | 3.3                              | 3.9  | 527                  | 520            | 40 | 65                        | 160  | 20                  | 140                             |
| HT-150TW    | White                     | InGaN    | 3.3                              | 3.9  | x=0.29<br>y=0.31     | -              | -  | 140                       | 220  | 20                  | 140                             |
| HT-150NB5   | Blue                      | InGaN    | 2.8                              | 3.15 | 472                  | 470            | 40 | 9                         | 25   | 5                   | 140                             |
| HT-150NG5   | Green                     | InGaN    | 2.8                              | 3.15 | 529                  | 522            | 40 | 15                        | 45   | 5                   | 140                             |
| HT-150TW5   | White                     | InGaN    | 2.8                              | 3.15 | x=0.29<br>y=0.32     | -              | -  | 25                        | 60   | 5                   | 140                             |

\*Per NIST standards

