

## 1.SPECIFICATIONS

### (1) Absolute Maximum Ratings

(Ta=25°C)

| Item                  | Symbol           | Absolute Maximum Rating | Unit |
|-----------------------|------------------|-------------------------|------|
| Forward Current       | I <sub>F</sub>   | 20                      | mA   |
| Pulse Forward Current | I <sub>FP</sub>  | 100                     | mA   |
| Reverse Voltage       | V <sub>R</sub>   | 5                       | V    |
| Power Dissipation     | P <sub>D</sub>   | 75                      | mW   |
| Operating Temperature | T <sub>opr</sub> | -30 ~ + 85              | °C   |
| Storage Temperature   | T <sub>stg</sub> | -40 ~ +100              | °C   |
| Soldering Temperature | T <sub>sld</sub> | 265°C for 3sec.         |      |

I<sub>FP</sub> Conditions : Pulse Width 10msec. and Duty 0.1

### (2)Typical Optical/ Electrical Characteristics

(Ta=25°C)

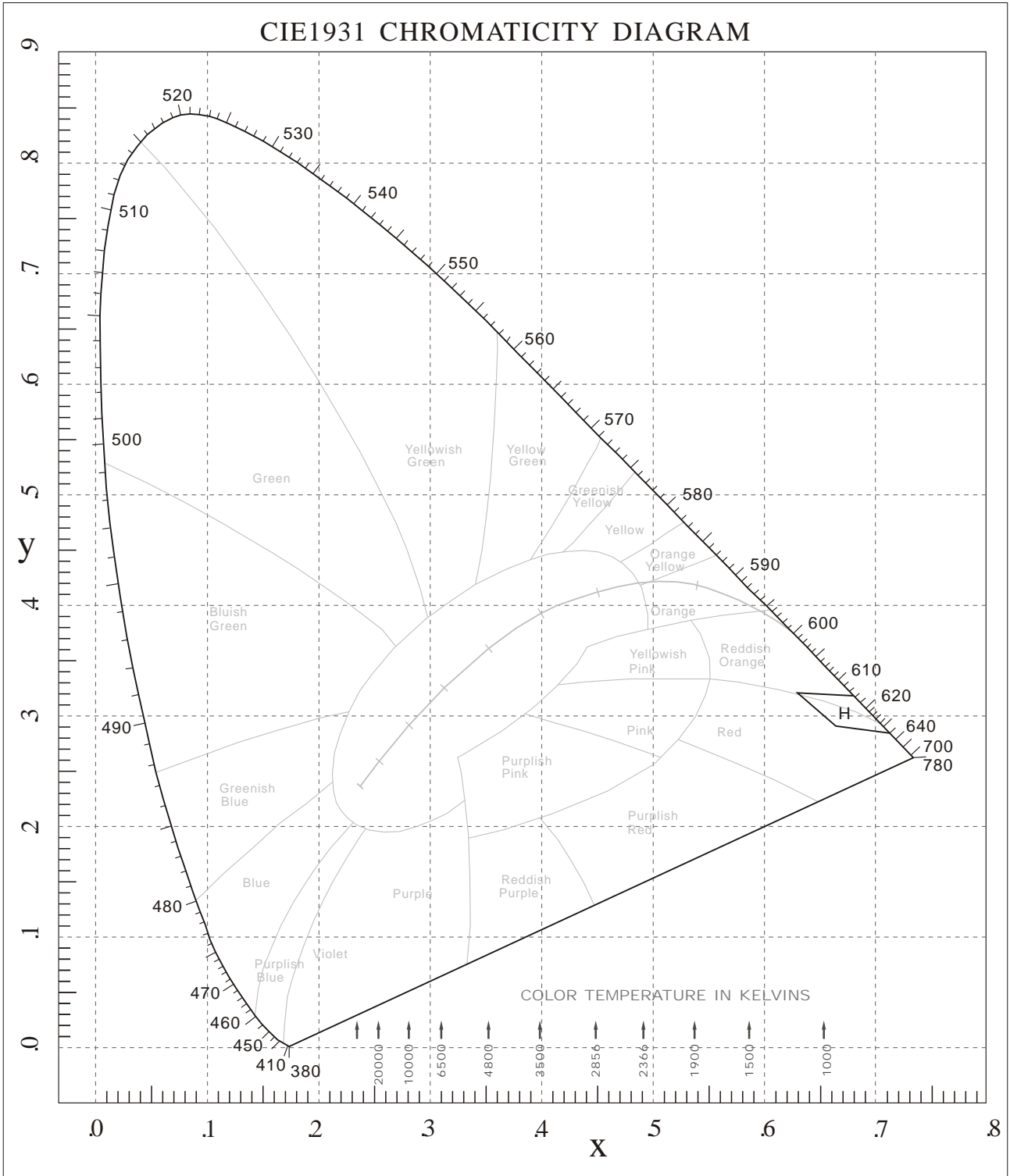
| Item                      | Symbol               | Condition            | Min. | Typ.  | Max. | Unit |
|---------------------------|----------------------|----------------------|------|-------|------|------|
| Forward Voltage           | V <sub>F</sub>       | I <sub>F</sub> =20mA | 3.3  | 3.5   | 3.6  | V    |
| Reverse Current           | I <sub>R</sub>       | V <sub>r</sub> =5V   | --   | --    | 5    | uA   |
| 50% Power Angle           | 2 θ 1/2              | I <sub>F</sub> =20mA | 10   | 12    | 15   | deg  |
| Luminous Intensity        | I <sub>v</sub>       | I <sub>F</sub> =20mA | 300  |       | 400  | mcd  |
| Peak Wavelength           | λ <sub>P</sub>       | I <sub>F</sub> =20mA | 395  |       | 400  | nm   |
| Recommend Forward Current | I <sub>F</sub> (rec) | --                   | --   | 10~20 | --   | mA   |

Notes:

- 1.Absolute maximum ratings Ta=25°C.
- 2.Tolerance of measurement of forward voltage ±0.1V.
- 3.Tolerance of measurement of peak Wavelength ±2.0nm.
- 4.Tolerance of measurement of luminous intensity ± 15%.

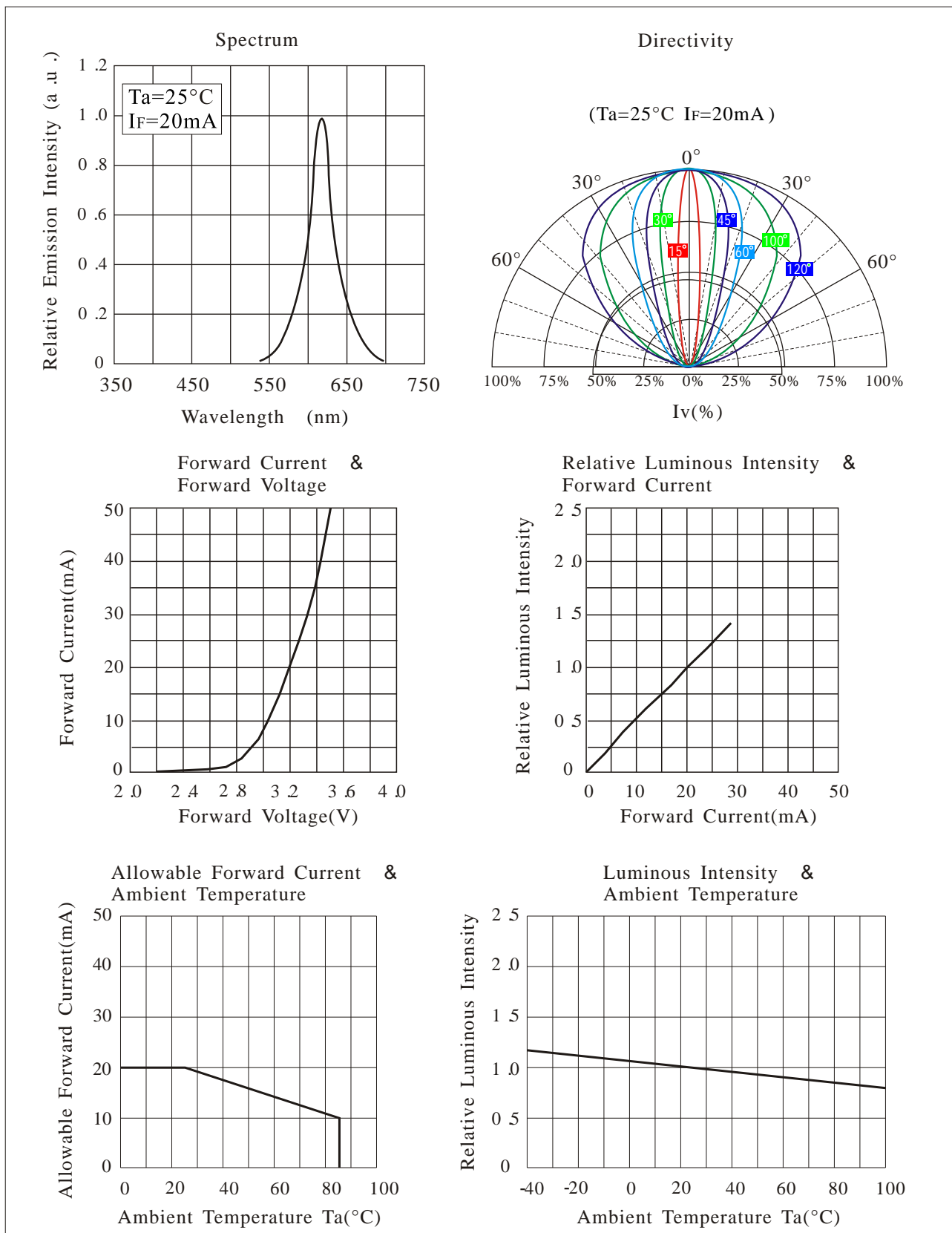
◆ Color Rank (Red)

$\lambda_D$  (615nm~635nm)



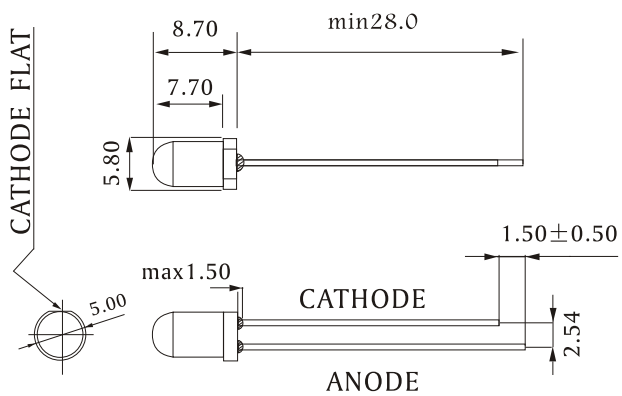
Color Coordinates Measurement allowance is  $\pm 0.01$

## 2. TYPICAL INITIAL OPTICAL/ELECTRICAL CHARACTERISTICS



### 3. OUTLINE DIMENSIONS AND MATERIALS

#### Package Dimensions



#### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.25$ mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.