

SPECIFICATIONS FOR HANGKE **RED** LED

杭科Φ5圆形红色LED产品规格书



Model : HK514URC

HangZhou HangKe Electronics Co.,LTD.

Http : //www .hkled .com 杭科电子

1. SPECIFICATIONS

(1) Absolute Maximum Ratings

(Ta=25°C)

| Item | Symbol | Absolute Maximum Rating | Unit |
|-----------------------|------------------|-------------------------|------|
| Forward Current | I _F | 30 | mA |
| Pulse Forward Current | I _{FP} | 100 | mA |
| Reverse Voltage | V _R | 5 | V |
| Power Dissipation | P _D | 75 | mW |
| Operating Temperature | T _{opr} | -30 ~ + 85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +100 | °C |
| Soldering Temperature | T _{sld} | 265°C for 3sec. | |

I_{FP} Conditions : Pulse Width 10msec. and Duty 0.1

(2) Initial Electrical/Optical Characteristics

(Ta=25°C)

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---------------------|----------------|------------------------|------|------|------|------|
| Forward Voltage | V _F | I _F =20[mA] | - | 2 .0 | 2 .5 | V |
| Reverse Current | I _R | V _R = 5[V] | - | - | 10 | μA |
| Peak Wavelength | λ _P | I _F =20[mA] | - | 632 | - | nm |
| Dominant Wavelength | λ _D | I _F =20[mA] | - | 623 | - | nm |

(3) Ranks (I_F=20mA Ta=25°C)

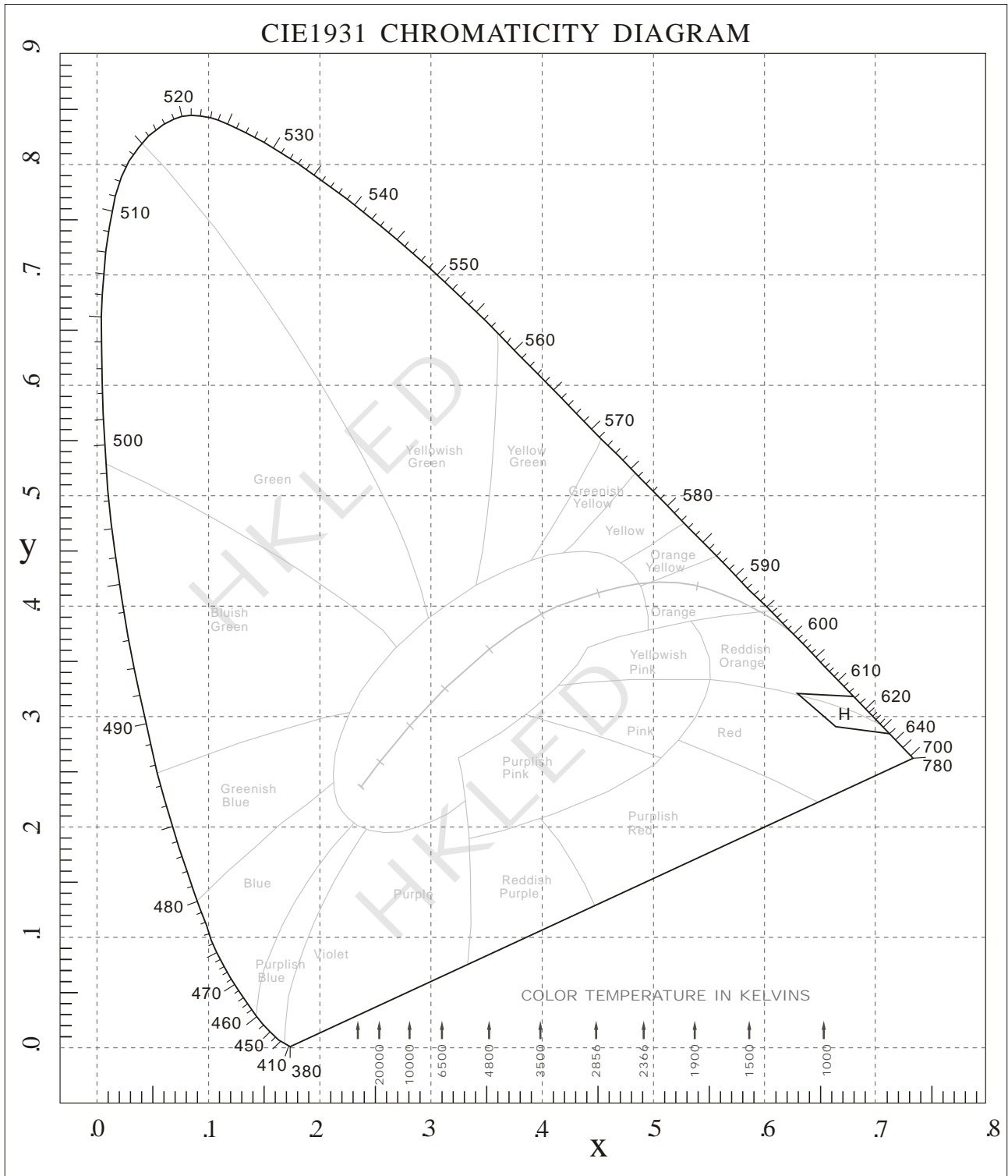
| Luminous Intensity Rank | | Viewing Angle 2θ½ (Deg.) | | | | | | |
|-------------------------|----------------------|--------------------------|--|----|----|----|--|--|
| Rank | I _v (mcd) | 15 | | 30 | 45 | 60 | | |
| L | 430– 600 | | | | | | | |
| M | 600– 850 | | | | | | | |
| N | 850– 1150 | | | | | | | |
| P | 1150– 1600 | | | | | | | |
| Q | 1600– 2300 | | | | | | | |
| R | 2300– 3200 | | | | | | | |
| S | 3200– 4600 | | | | | | | |
| T | 4600– 6400 | | | | | | | |



◆ Color Rank (Red)

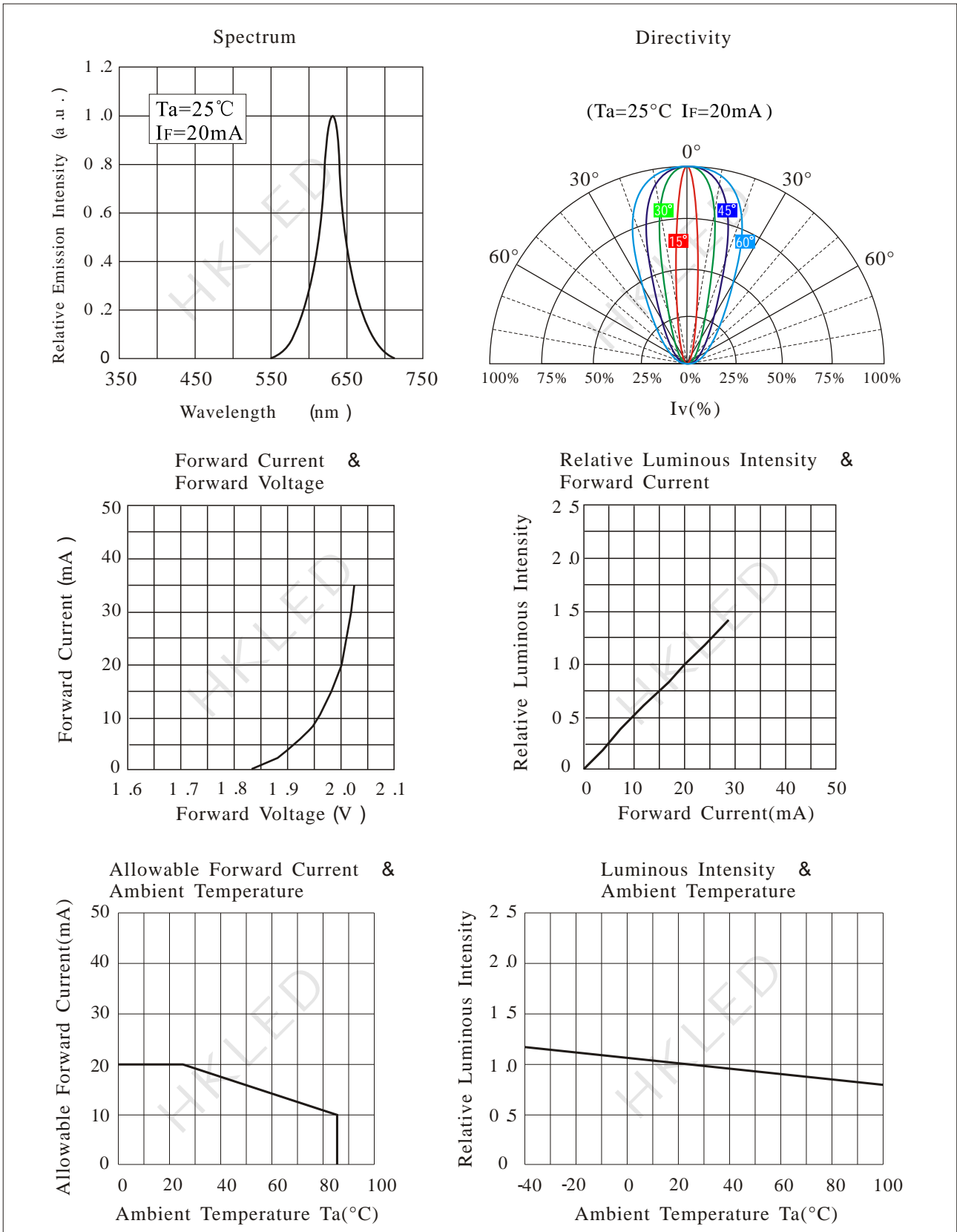
| H | x | 0.680 | 0.714 | 0.666 | 0.630 |
|---|---|-------|-------|-------|-------|
| | y | 0.320 | 0.286 | 0.290 | 0.320 |

λ_D (615nm~635nm)



Color Coordinates Measurement allowance is ± 0.01

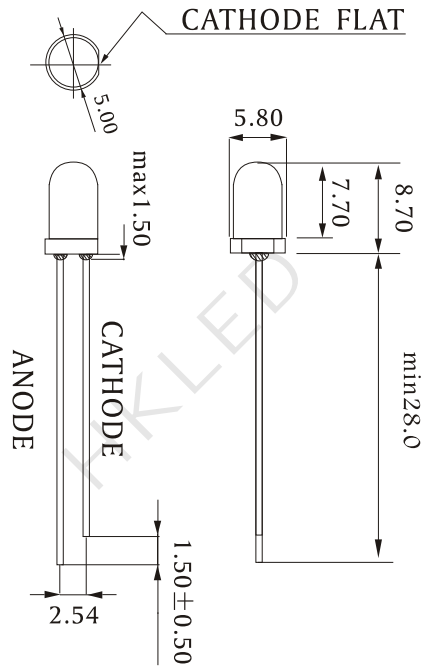
2. TYPICAL INITIAL OPTICAL/ELECTRICAL CHARACTERISTICS





3. OUTLINE DIMENSIONS AND MATERIALS

Package Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.25\text{mm}$ 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.

- ◆ Lens Color : Water Clear
- ◆ Emitting Color : Super Bright RED
- ◆ Chip material : AlGaInP
- ◆ Resin(Mold) : Epoxy Resin
- ◆ Leadframe : Ag plating Iron