**Part No.: 07HFRGY-CC**

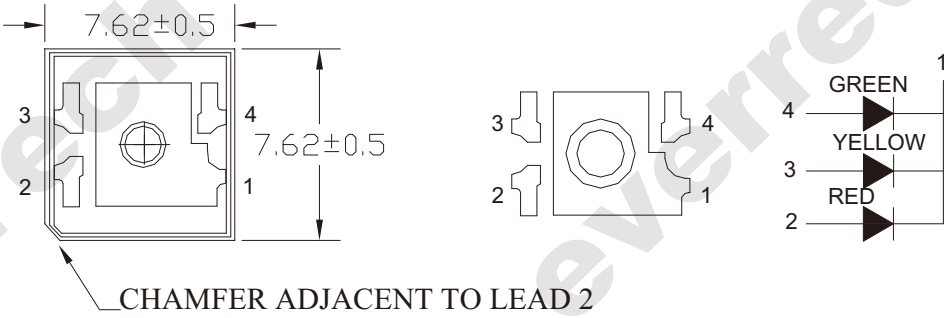

## ➢ Fatures：

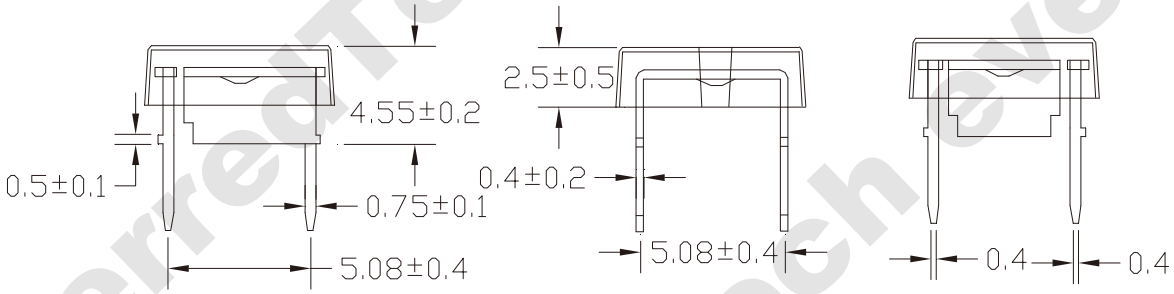
- Triple color
- High bright output
- High Current Operation
- Low power consumption
- High reliability and long life

## ➢ Descriptions：

- Dice material：

  R/Y/G：AlGaInP/ AlGaInP /InGaN
- Device Outline：7.6mmX7.6mm
- Lens Type：Water Clear




**NOTE:**

- All dimensions are millimeters.
- Tolerance is +/-0.20mm unless otherwise noted

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**Part No.: 07HFRGY-CC**

## ➢ Absolute maximum ratings（Ta = 25℃）

| Parameter | | Symbol | Test Condition | Value | | Unit |
|---|---|---|---|---|---|---|
| | | | | Min. | Max. | |
| Reverse Voltage | | VR | IR = 30μA | 5 | ---- | V |
| Forward Current | R | IF | ---- | ---- | 30 | mA |
| | Y | | | ---- | 30 | |
| | G | | | ---- | 30 | |
| Power Dissipation | | Pd | ---- | ---- | 250 | mW |
| Pulse Current | | Ipeak | Duty=0.1mS，1kHz | ---- | 150 | mA |
| Operating Temperature | | Topr | ---- | -40 | +85 | ℃ |
| Storage Temperature | | Tstr | ---- | -40 | +100 | ℃ |

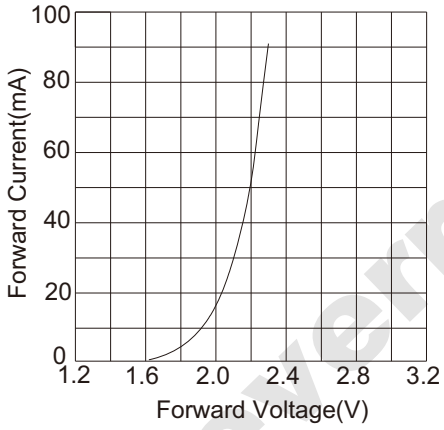
## ➢ Electrical and optical characteristics （Ta = 25℃）

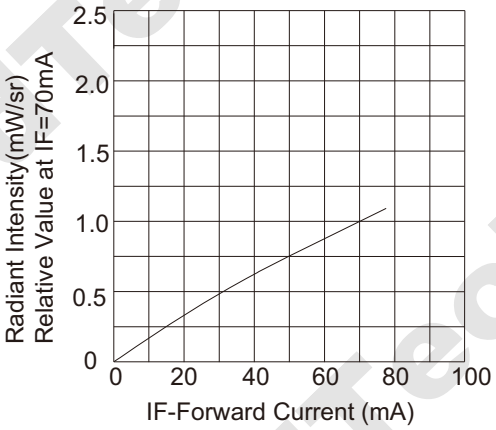
| Parameter | Color | Symbol | Test Condition | Value | | | Unit |
|---|---|---|---|---|---|---|---|
| | | | | Min. | Typ. | Max. | |
| Forward Voltage | R | VF | IF = 30mA | ---- | 2.1 | 2.6 | V |
| | Y | | IF = 30mA | ---- | 2.1 | 2.6 | |
| | G | | IF = 30mA | ---- | 3.3 | 3.8 | |
| Reverse Current | | IR | VR = 5V | ---- | ---- | 30 | μA |
| Dominate Wavelength | R | λd | IF = 30mA | ---- | 624 | ---- | nm |
| | Y | | IF = 30mA | ---- | 589 | | |
| | G | | IF = 30mA | ---- | 525 | | |
| Peak Wavelength | R | λp | IF = 30mA | ---- | 632 | ---- | nm |
| | Y | | IF = 30mA | ---- | 592 | | |
| | G | | IF = 30mA | ---- | 520 | | |
| Spectral Line half-width | R | Δλ | IF = 30mA | ---- | 20 | ---- | nm |
| | Y | | IF = 30mA | ---- | 20 | | |
| | G | | IF = 30mA | ---- | 35 | | |
| Luminous Intensity | R | IV | *IF = 30mA | | 0.8 | ---- | lm |
| | Y | | *IF = 30mA | | 1.2 | | |
| | G | | *IF = 30mA | | 2.5 | | |
| Viewing Angle | | 2θ1/2 | IF = 30mA | ---- | 120 | ---- | Deg. |

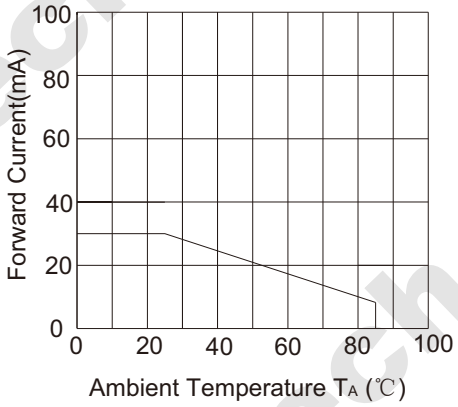
***If also uses, must tally maximum Forward Current, Simultaneously must tally maximum Power Dissipation.**

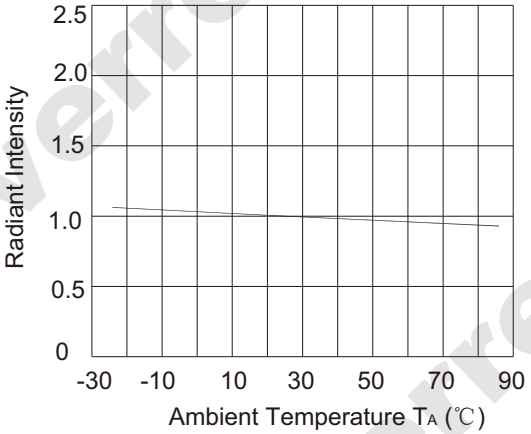
Part No.: 07HFRGY-CC

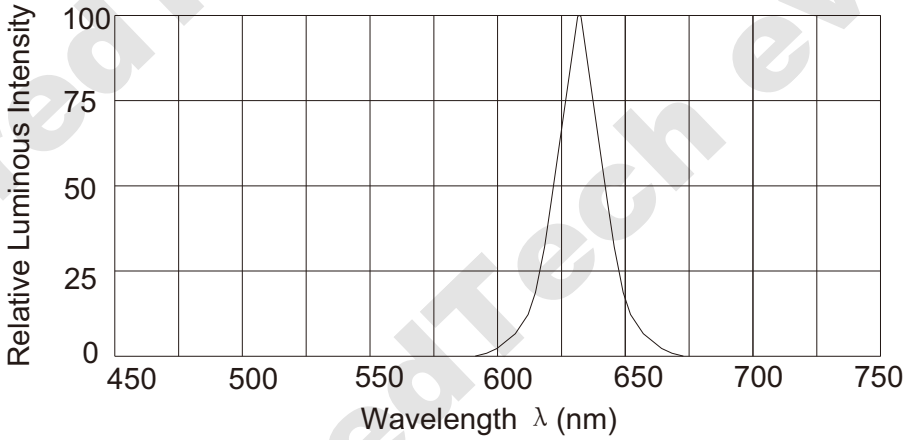
## ➢ Typical electrical/optical characteristic curves RED



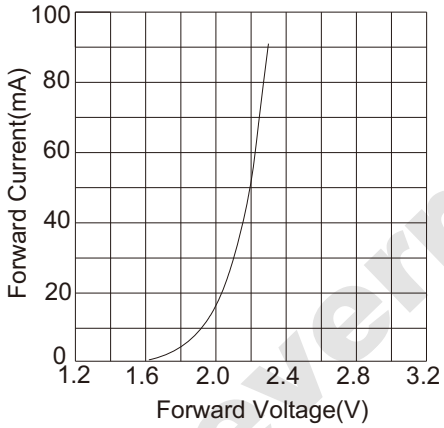



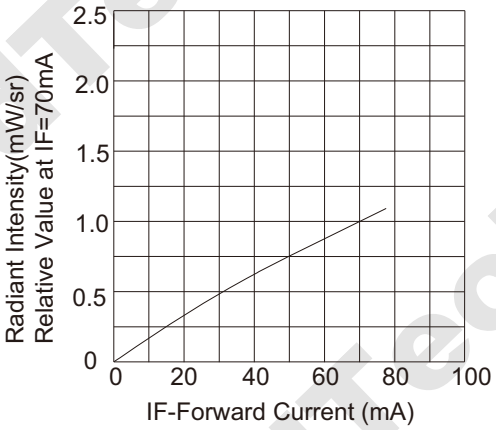



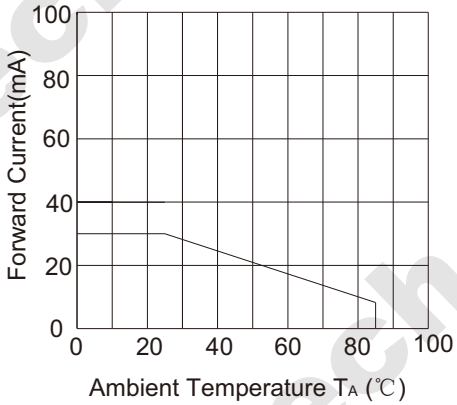



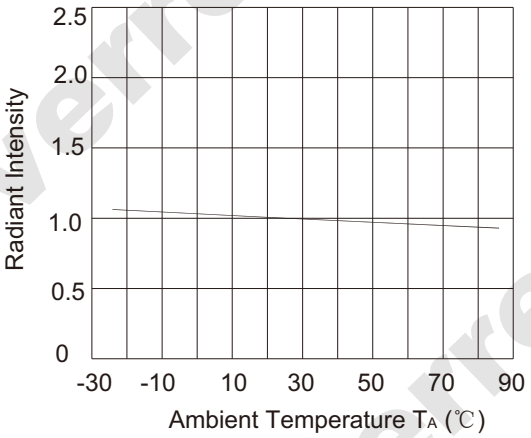
Part No.: 07HFRGY-CC

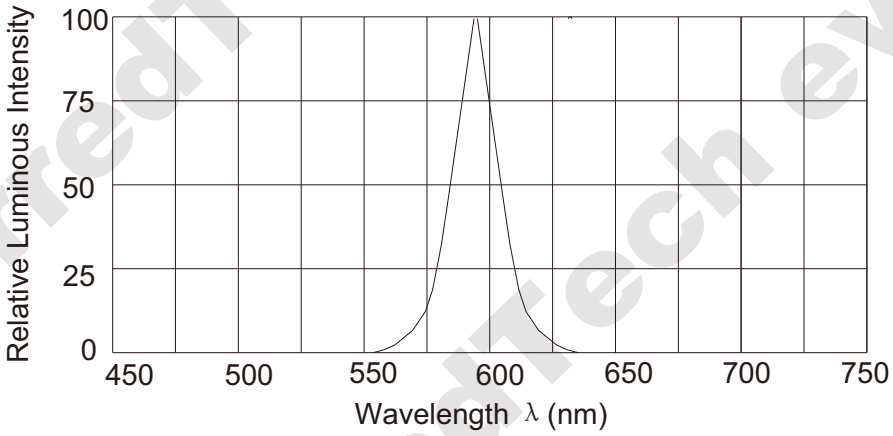
## ➢ Typical electrical/optical characteristic curves YELLOW



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**Part No.: 07HFRGY-CC**

## ➢ Typical electrical/optical characteristic curves GREEN