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## 光电参数 Ta=25 (ta=25 Ņ)

| ğ Parameter | Symbol | Color | Data | | | ı β Symbol | Ð Test Condition |
|---|---|---|---|---|---|---|---|
| | | | Ỵ Min | شخ Average | Ỵ Max | | |
| h ı Forward Voltage | VF | orange | ע | 2.0 | ע | V | IF=20mA |
| | | green | ע | 3.0 | ע | V | IF=20mA |
| | | white | ע | 3.0 | ע | V | IF=20mA |
| ѽ Light Intensity | Iv | orange | ע | 100 | ע | mcd | IF=20mA |
| | | green | ע | 600 | ע | mcd | IF=20mA |
| | | white | ע | 800 | ע | mcd | IF=20mA |
| h The main wavelength | λd | orange | ע | 605 | ע | nm | IF=20mA |
| | | green | ע | 520 | ע | nm | IF=20mA |
| Ỵ The peak wavelength | λp | orange | ע | 602 | ע | nm | IF=20mA |
| | | green | ע | 528 | ע | nm | IF=20mA |
| شم Ỵ Color coordinate value | X | white | -- | 0.2381 | -- | / | IF=20mA |
| | Y | | -- | 0.2171 | -- | | |
| ٧ Spectral Line Half-Width | Y | orange | ע | 20 | ע | nm | IF=20mA |
| | | green | ע | 28 | ע | nm | IF=20mA |
| ĩ h Reverse current | IR | | ע | ע | 1 | μA | Vr=5V |
| ٧ ѽ Viewing Angle | 2θ1/2 | | ע | 120 | ע | Deg | IF=20mA |

**Brightness grading:**

| Code | Min | Max | Unit | Test conditions |
|---|---|---|---|---|
| D2 | 80 | 120 | mcd | IF=20mA |
| D3 | 120 | 150 | | |
| D4 | 150 | 180 | | |
| E6 | 600 | 700 | | |
| E7 | 700 | 800 | | |
| E8 | 800 | 900 | | |
| E9 | 900 | 1000 | | |

**Voltage grading:**

| Code | Min | Max | Unit | Test conditions |
|---|---|---|---|---|
| R8-4 | 1.8 | 2.2 | V | IF=20mA |
| N16-4 | 2.6 | 3.0 | | |
| N17-4 | 2.7 | 3.1 | | |

**波长分档:**

**Wavelength grading:**

| Code | Min | Max | Unit | Test conditions |
|---|---|---|---|---|
| HO01 | 600 | 602.5 | nm | IF=20mA |
| HO02 | 602.5 | 605 | | |
| HO03 | 605 | 607.5 | | |
| HG02 | 515 | 520 | | |
| HG03 | 520 | 525 | | |
| HG04 | 525 | 530 | | |

Part

# 使用注意事项（2）

## Precautions (2)

**3. 设计建**

**Design Co eration**

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ﾉ Ѝ˛ LED h ﾍ $V_F$ ˜ ŭ ǐ ˇ Ψ ң ŭ ǐ ˇ ˆ ą LED ǐ

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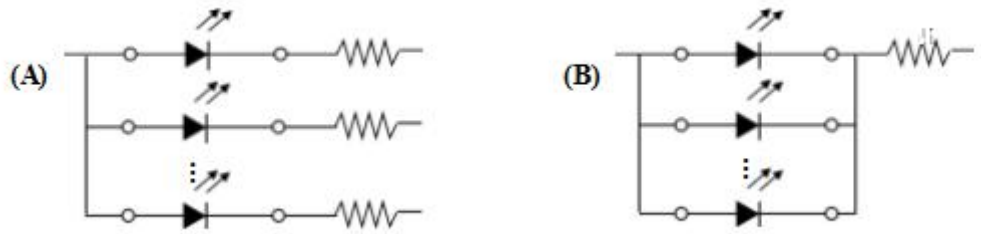
In designing a circuit, the current through each LED must not exceed the absolute maximum rating specified for each LED. In the meanwhile, resistors for protection should be applied, otherwise slight voltage shift will cause big current change, burn out may happen.

It is recommended to use Circuit A which regulates the current flowing through each LED rather than Circuit B. When driving LEDs with a constant voltage in Circuit B, the current through the LEDs may vary due to the variation in Forward Voltage ($V_F$) of the LEDs. In the worst case, some LED may be subjected to stresses in excess of the Absolute Maximum Rating.

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Thermal Design is paramount importance

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