

**FEATURES**

- Maximum drive current: up to 1000 mA
- Maximum junction temperature: 150 °C
- Electrically neutral thermal path

**White Chromaticity Region**

| Region | x    | y    |
|--------|------|------|
| WG     | .329 | .369 |
|        | .329 | .345 |
|        | .316 | .332 |
|        | .314 | .355 |

**Brightness**

| Code | Min. | Max. |
|------|------|------|
| Q4   | 100  | 107  |

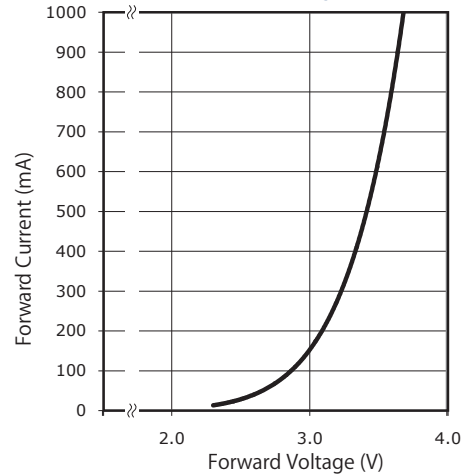
@ I<sub>F</sub> : 350mA (unit : lumen)

**7090 size**  
(7.0 x 9.0mm)

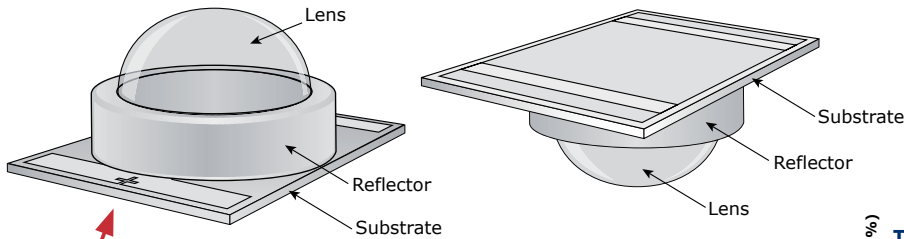
**CHARACTERISTICS**

| Characteristics                              | Unit    | Typical | Maximum |
|--|---------|---------|---------|
| Thermal Resistance, junction to solder point | °C/w    | 8       |         |
| Viewing Angle (FWHM)                         | degrees | 90      |         |
| Temperature Coefficient of Voltage           | mV/°C   | -4.0    |         |
| DC Forward Current                           | mA      |         | 1000    |
| DC pulse Current (@ 1 kHz, 10% duty cycle)   | A       |         | 1.8     |
| Reverse Voltage                              | V       |         | 5       |
| Forward Voltage (@ 350 mA)                   | V       | 3.3     | 3.9     |
| Forward Voltage (@ 700 mA)                   | V       | 3.5     |         |
| Forward Voltage (@ 1000 mA)                  | V       | 3.7     |         |
| LED Junction Temperature                     | °C      |         | 150     |

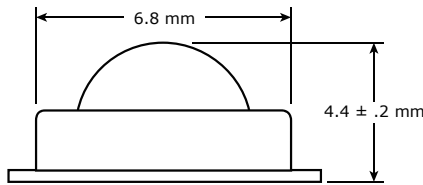
**ELECTRICAL CHARACTERISTICS**  
(T<sub>J</sub> = 25 °C)



**MECHANICAL DIMENSIONS**

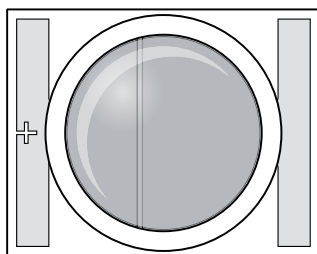
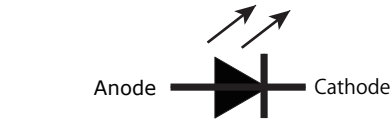
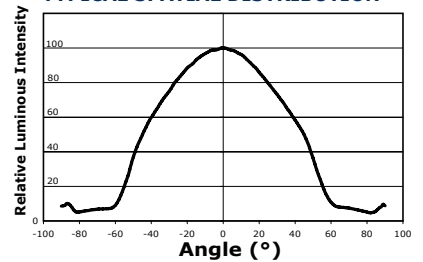


all measurements are ± .1mm unless otherwise indicated.

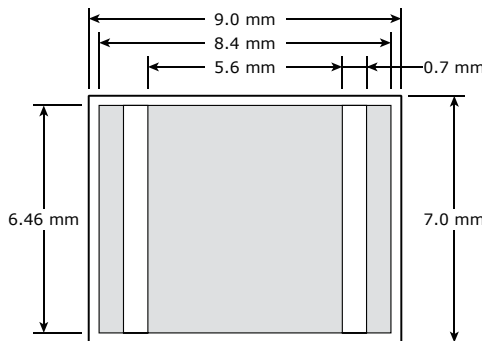


Side View

**TYPICAL SPATIAL DISTRIBUTION**

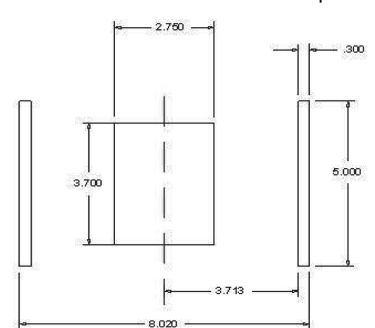


Top View



Bottom View

**Recommended PC Board Solder pad**



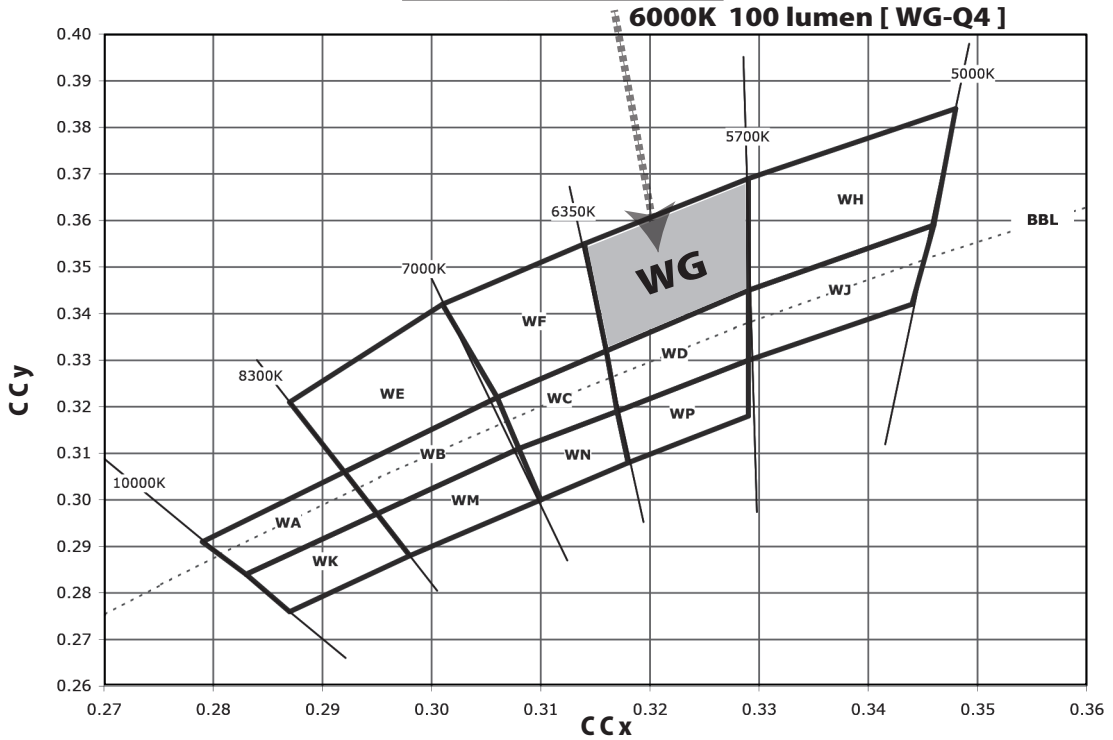
# XREWHT-L1-0000-00C02 ( XREWHT-L1-WG-Q4 ) 6000K 100 lumen [ WG-Q4 ] Cool White

参考資料

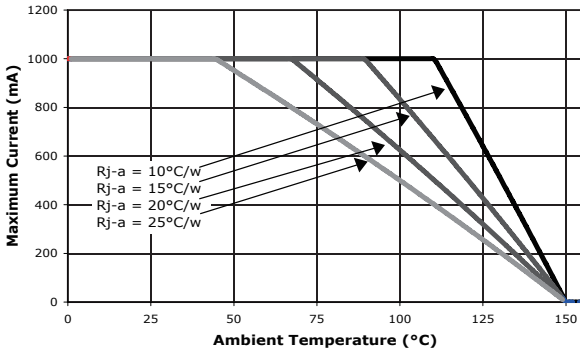
CREE'S STANDARD CHROMATICITY REGIONS PLOTTED ON THE 1931 CIE CURVE

White Chromaticity Region

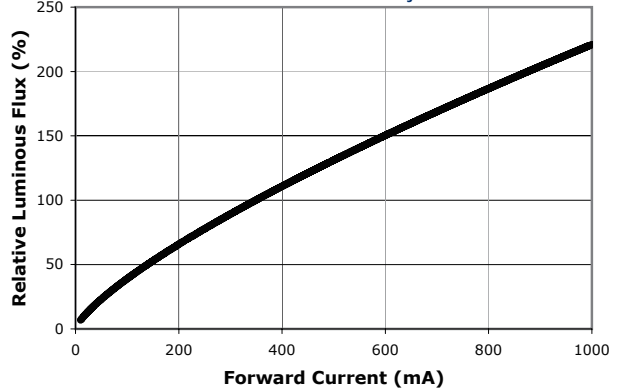
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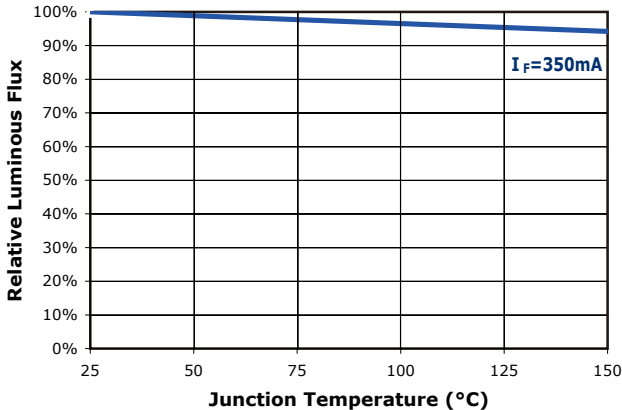
## THERMAL DESIGN



## RELATIVE FLUX VS. CURRENT ( $T_j = 25^{\circ}\text{C}$ )



## RELATIVE FLUX VS. JUNCTION TEMPERATURE



## RELATIVE SPECTRAL POWER DISTRIBUTION

