

BEELED

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MODEL: 7206W2C-CSD-B

Features

- Electricity control IC embedded
- Fancy, fun, hottest in the market.
- Lens size with 5mm / 8mm / 10mm options
- Viewing Angles 40° ..
- Operating voltage range : 3V-5V DC.
- Blinking frequency : 2.4Hz
- Frequency tolerance : $\pm 20\%$
- RoHS compliant



Descriptions

- New trend creations
- Low energy consumptions
- Low maintenance costs
- High application design flexibility
- High reliability

Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

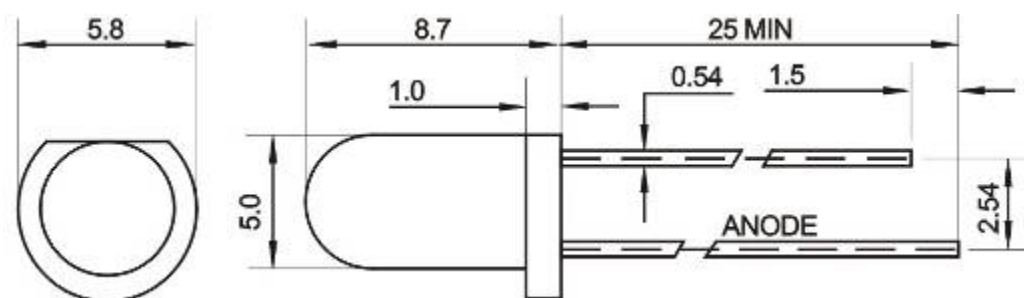
- Toys / sports utilities
- Miniature key chains
- Effect Lights.
- Display / decoration lights .
- Electronic displays and signals
- Interior decoration lights.
- Indicator lights.
- Solar energy lights / garden lights

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Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|---------------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 7206W2C-CSD-B | InGaN | White | Water clear |

Package Dimensions



UNIT:mm

Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|--|-----------|-------------------------|--------------------|
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | I_{FPM} | 100 | mA |
| Forward Current | I_{FM} | 30 | mA |
| Reverse Voltage | V_R | 5 | V |
| Power Dissipation | P_D | 100 | mW |
| Operating Temperature | T_{opr} | -40~+80 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{stg} | -40~+100 | $^{\circ}\text{C}$ |
| Soldering Heat (5s) | T_{sol} | 260 | $^{\circ}\text{C}$ |



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Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)

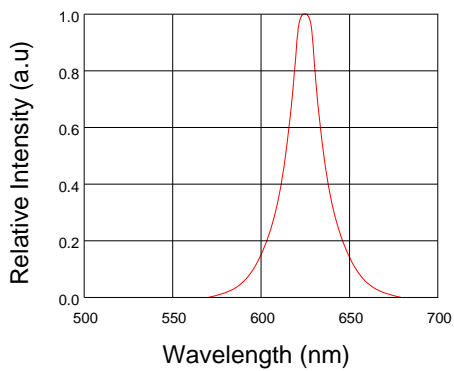
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|-----------------|-------|------|-------|---------------|----------------|
| Luminous Intensity | I_v | 10000 | | 12000 | mcd | IF=20mA(Note1) |
| Viewing Angle | $2\theta_{1/2}$ | --- | 40 | --- | Deg | (Note 2) |
| Peak Emission Wavelength | λ_p | | | | nm | IF=20mA |
| Spectral Line Half-Width | $\Delta\lambda$ | 15 | 20 | 25 | nm | IF=20mA |
| Turn on time | Duty | | 1/20 | | ms | IF=20mA |
| Blinking Frequency | Fled | 2.0 | | 2.4 | Hz | IF=20mA |
| Forward Voltage | V_F | 3.0 | --- | 5.0 | V | IF=20mA |
| Reverse Current | I_R | --- | --- | 10 | μA | VR=5V |

Note:

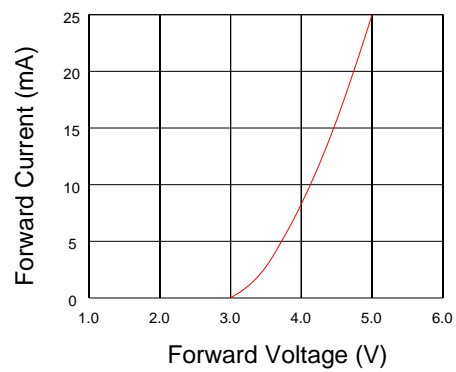
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

Typical Electro-Optical Characteristics Curves

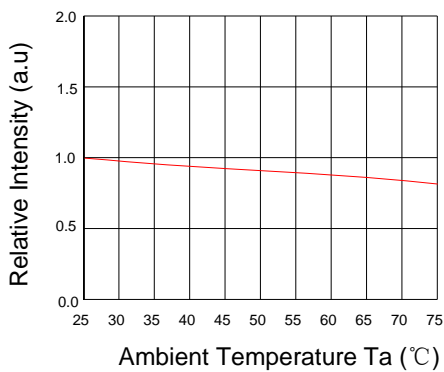
Relative Intensity VS. Wavelength



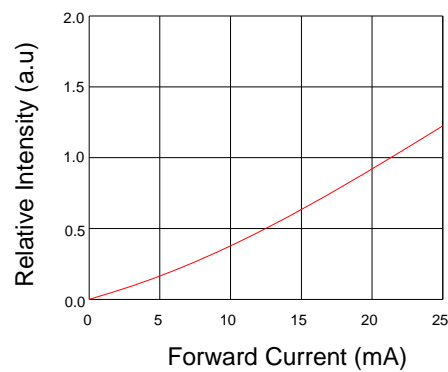
Forward Current VS. Forward Voltage



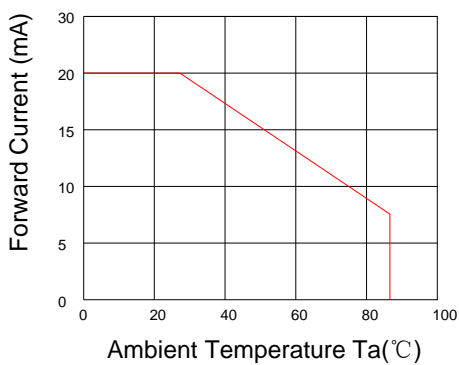
Relative Intensity VS. Ambient Temp



Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics

