



HUIYUAN ELECTRONIC CO.,LTD.

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 1206W2C-KHC-B

Features

- Package in 8mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Mono-color type
- Pb-free



Descriptions

- The 1206 SMD LED is much smaller than lead frame type components thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained
- Besides, lightweight makes them ideal for miniature applications.etc

Usage Notes:

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

Applications

- Automotive:backlighting in dashboard and switch
- Telecommunication:indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- General use



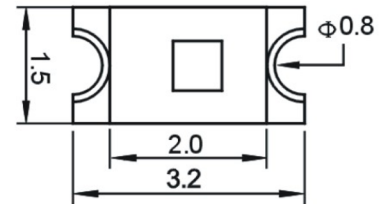
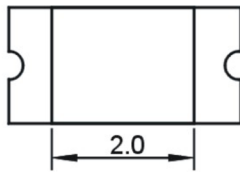
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Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|---------------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 1206W2C-KHC-B | InGaN | White | Water clear |

Package Dimensions



UNIT:mm

Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.



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

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|-----------------------|------------------|-------------------------|--------------------|
| Forward Pulse Current | I_{FPM} | 70 | mA |
| Forward Current | I_{FM} | 25 | mA |
| Reverse Voltage | V_{R} | 5 | V |
| Power Dissipation | P_{D} | 140 | 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 | $^{\circ}\text{C}$ |

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|----------------------|------|------|------|---------------|-----------------|
| Luminous Intensity | I_{V} | 350 | --- | 560 | mcd | IF=20mA(Note 1) |
| Viewing Angle | $2\theta_{1/2}$ | --- | 120 | --- | Deg | (Note 2) |
| Peak Emission Wavelength | λ_{p} | --- | --- | --- | nm | IF=20mA |
| Spectral Line Half-Width | $\Delta\lambda$ | 25 | 30 | 35 | nm | IF=20mA |
| Forward Voltage | V_{F} | 2.9 | --- | 3.5 | V | IF=20mA |
| Reverse Current | I_{R} | --- | --- | 10 | μA | VR=5V |

Note:

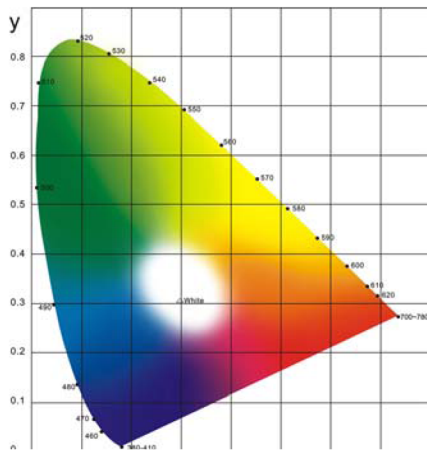
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



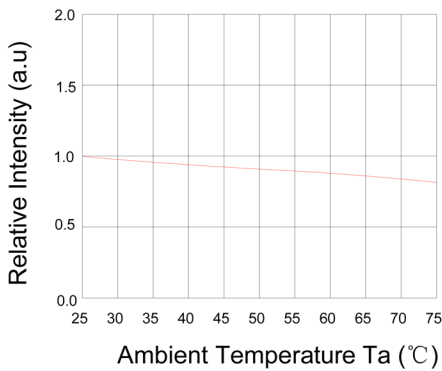
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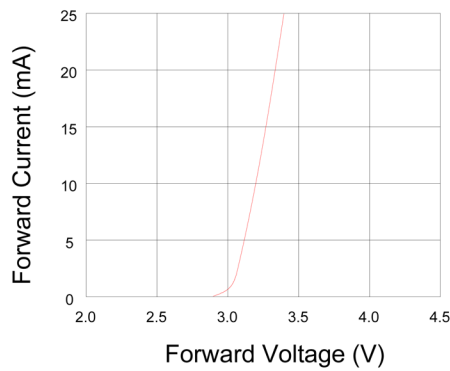
Typical Electro-Optical Characteristics Curves



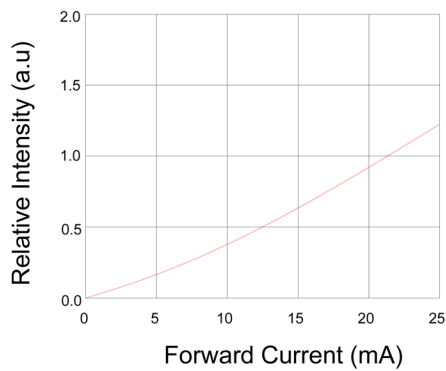
Relative Intensity VS. Ambient Temp



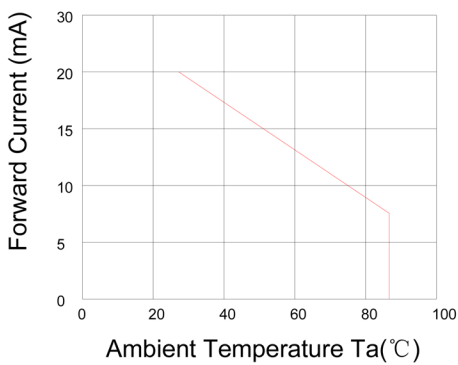
Forward Current VS.Forward Voltage



Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics

