



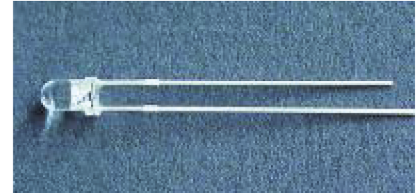
HUIYUAN ELECTRONIC CO.,LTD.

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3034W2C-DSC-B

Features

- High efficiency
- Low Power consumption
- General purpose leads
- Selected minimum intensities
- Available on tape and reel
- Pb free



Descriptions

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc
- Superior performance in outdoor environment

Usage Notes:

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

Applications

- Status indicators
- Commercial use
- Advertising Signs
- Back lighting



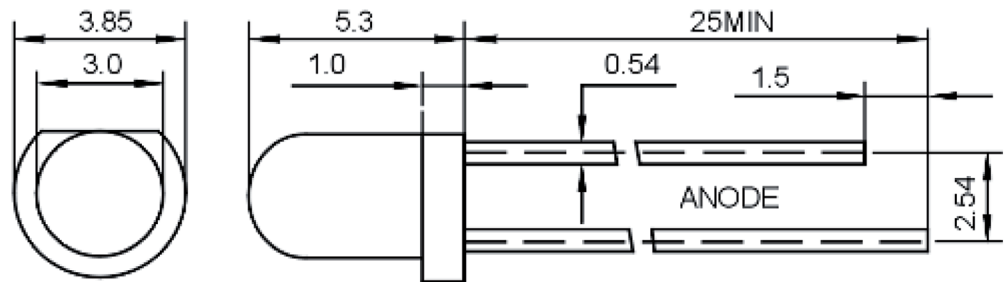
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Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|---------------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 3034W2C-DSC-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} | 30 | 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 | 2700 | --- | 4000 | mcd | IF=20mA(Note 1) |
| Viewing Angle | $2\theta_{1/2}$ | --- | 40 | --- | 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 | --- | 3.3 | V | IF=20mA |
| Reverse Current | I_R | --- | --- | 10 | μA | VR=5V |

Note:

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

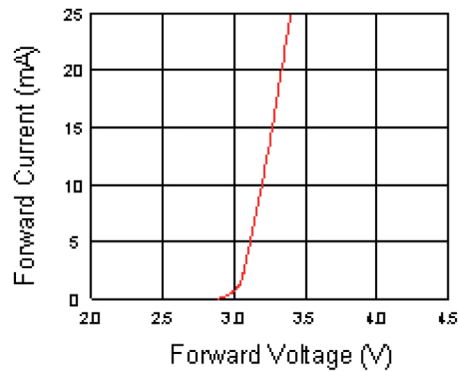


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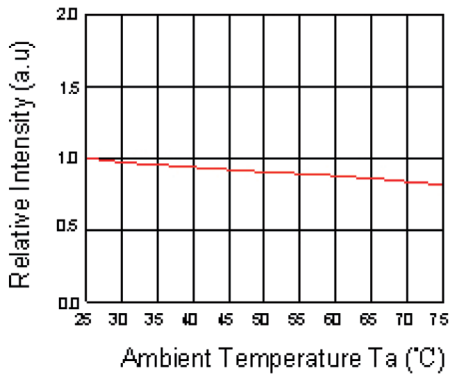
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Typical Electro-Optical Characteristics Curves

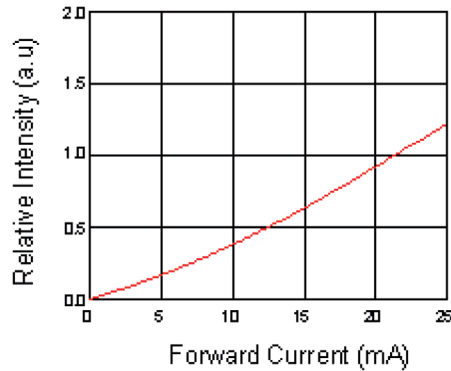
Forward Current VS.Forward Voltage



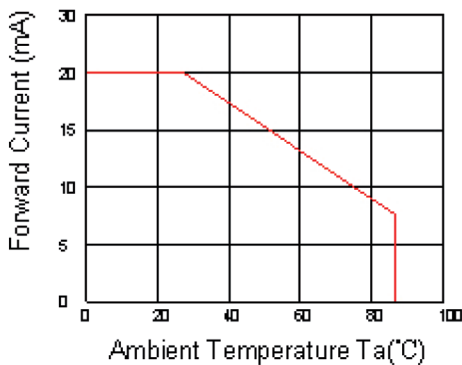
Relative Intensity VS. Ambient Temp



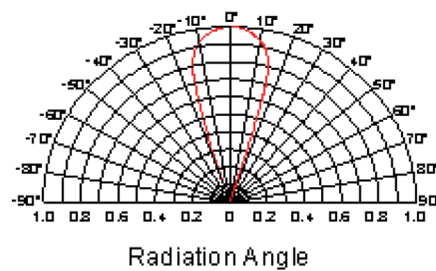
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics





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Notes

1. Above specification may be changed without notice. HYLEED will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. HYLEED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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