



HUIYUAN ELECTRONIC CO.,LTD.

## TECHNOLOGY DATA SHEET & SPECIFICATIONS

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MODEL: 3034W2D-ESA-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



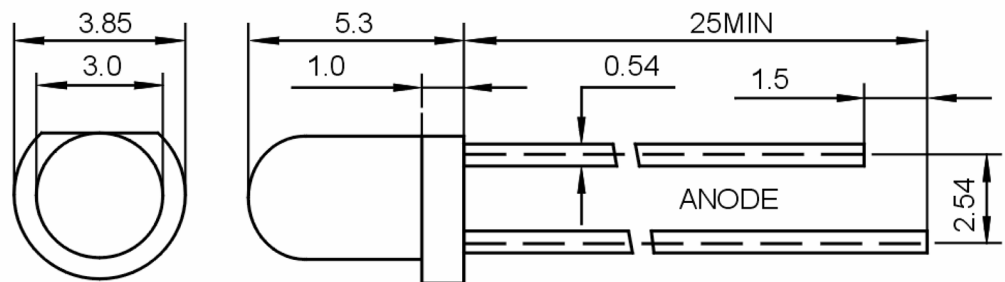
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### Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
3034W2D-ESA-B	InGaN	White	Color Diffused

### 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.

**TECHNOLOGY DATA SHEET & SPECIFICATIONS**MODEL: **3034W2D-ESA-B****Absolute Maximum Rating (T<sub>a</sub>=25°C)**

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I <sub>FPM</sub>	70	mA
Forward Current	I <sub>FM</sub>	30	mA
Reverse Voltage	V <sub>R</sub>	5	V
Power Dissipation	P <sub>D</sub>	140	mW
Operating Temperature	T <sub>opr</sub>	-40~+80	°C
Storage Temperature	T <sub>stg</sub>	-40~+100	°C
Soldering Heat (5s)	T <sub>sol</sub>	260	°C

**Electro-Optical Characteristics (T<sub>a</sub>=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>V</sub>	1000	---	2500	mcd	IF=20mA(Note 1)
Viewing Angle	2θ <sub>1/2</sub>	---	60	---	Deg	(Note 2)
Peak Emission Wavelength	λ <sub>p</sub>	---	---	---	nm	IF=20mA
Spectral Line Half-Width	Δλ	25	30	35	nm	IF=20mA
Forward Voltage	V <sub>F</sub>	2.9	---	3.3	V	IF=20mA
Reverse Current	I <sub>R</sub>	---	---	10	μA	VR=5V

**Note:**

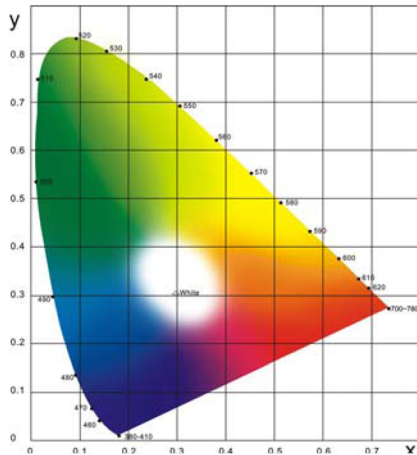
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



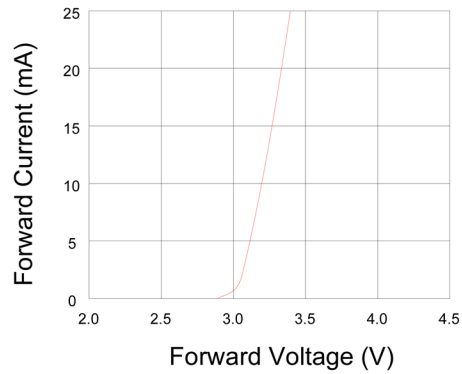
**TECHNOLOGY DATA SHEET & SPECIFICATIONS**

**MODEL: 3034W2D-ESA-B**

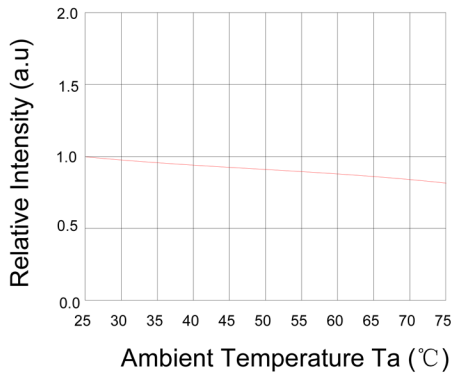
**Typical Electro-Optical Characteristics Curves**



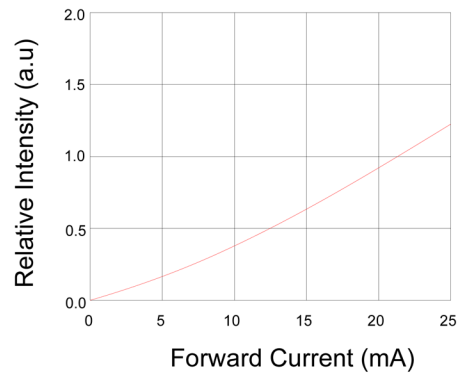
Forward Current VS.Forward Voltage



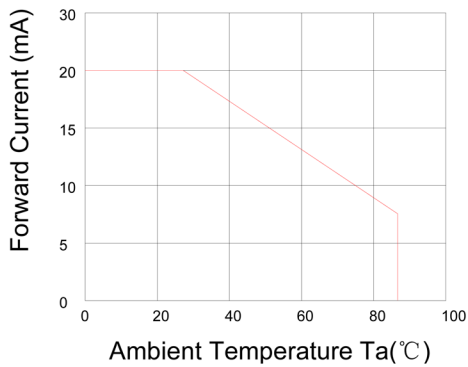
Relative Intensity VS. Ambient Temp



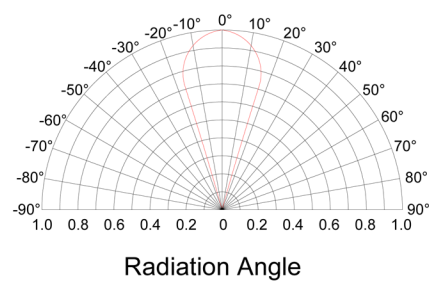
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics





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### Notes

1. Above specification may be changed without notice. Hyled 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. Hyled 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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