

**FEATURES**

High Luminous Output White LED Lamp

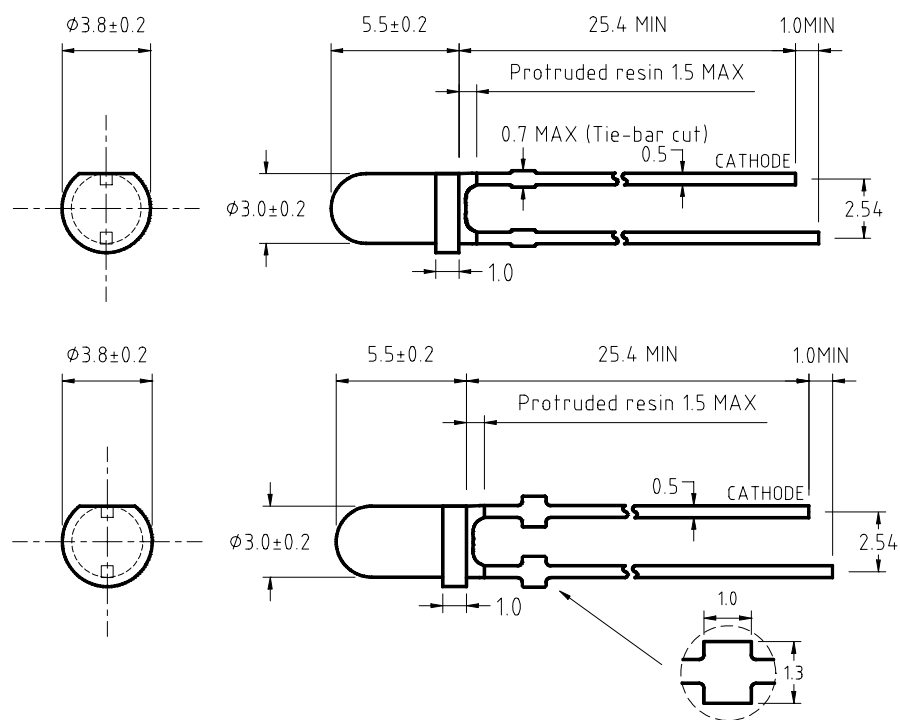
Chip Technology — InGaN

Water Clear Epoxy Package

Lens Size 3mm with 5mm option

Viewing Angles  $2\theta \frac{1}{2} = 30^\circ$ , with  $23^\circ$ ,  $60^\circ$  options

Stand-Off Options

**Package Dimensions****Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance  $\pm 0.25$  (0.01") mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm (0.04") max.
4. Lead spacing is measured where the leads emerge from the package
5. Specifications are subject to change without notice.

# YZ-W3N30N

## Absolute Maximum Ratings at Ta = 25°C

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	I <sub>F</sub>	20	mA
Peak Pulsed Forward Current ※	I <sub>FP</sub>	150	mA
Reverse Voltage	V <sub>R</sub>	5	V
Derating Factor		0.40	mA/ °C
Power Dissipation	P <sub>d</sub>	120	mW
Operating Temperature	T <sub>opr</sub>	-30 ~ +85 °C	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100 °C	°C
Solder Dipping Temperature	T <sub>slid</sub>	260°C for 5 sec	

Remarks: Duty Ratio = 1/16, Pulse Width = 0.1ms

## Electrical / Optical Characteristics at Ta = 25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V <sub>f</sub>	2.9	3.2	3.5	V	I <sub>f</sub> = 20 mA
Luminous Intensity	I <sub>v</sub>	4000	6000	7200	mcd	I <sub>f</sub> = 20 mA
Reverse Current	I <sub>r</sub>			10	mA	V <sub>R</sub> = 5V

## Iv Ranks / Luminous Intensity Bin Limits

Bin Name	Min	Max
S	4000	6000
T	6000	7200

I<sub>v</sub> Ranks Tolerance of each minimum and maximum is ± 15%

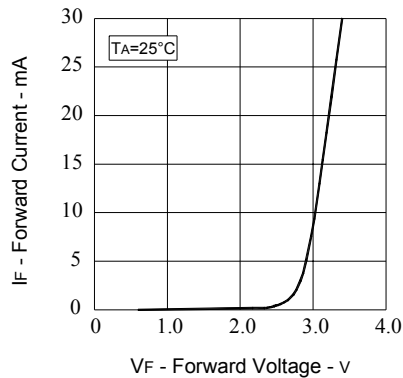
## Color Ranks

Bin Name	CIE				
A	X	0.280	0.264	0.283	0.296
	Y	0.248	0.267	0.305	0.276
B	X	0.296	0.283	0.330	0.330
	Y	0.276	0.305	0.360	0.318
C	X	0.330	0.330	0.361	0.356
	Y	0.318	0.360	0.385	0.351

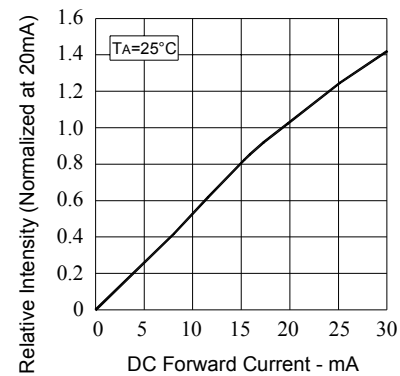
# YZ-W3N30N

## Electrical / Optical Characteristics Diagram at Ta = 25°C

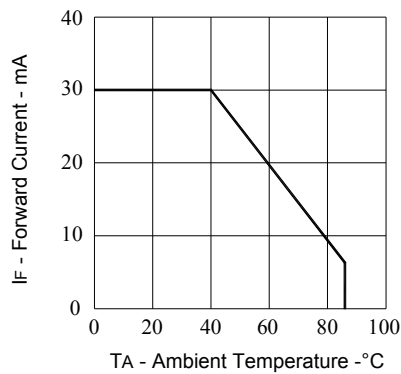
Forward Current vs. Forward Voltage



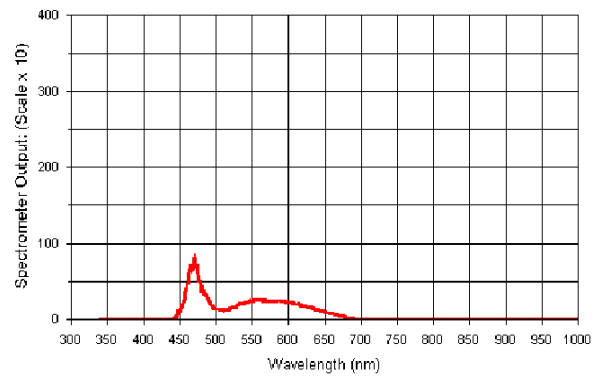
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



Spectrum



### Notes:

1. One delivery will include up to three-color ranks and two luminous intensity ranks of the products. The quantity-ratio of the ranks is decided by Yoldal.
2. All data showing in this product specification are measured by proper experiment conditions and instruments. However, those data may be different due to variations of testing instruments and conditions.



Electrostatic Sensitive Devices