



# YOLight™ Ultra Bright Blue LED Lamp

## YM-B 3series

<b>Y</b>	<b>M</b>	<b>-</b>	<b>B</b>	<b>3</b>	<b>N</b>	<b>30</b>	<b>N</b>
YOLight	Product Code		Color	Size	Shape	Angle 2θ ½	Stand-Off
			Blue	3 mm	Normal	30°	No

### FEATURES

- Highly Luminous Ultra Bright
- InGaN / Sapphire Technology Chip
- Super Luminous Intensity 1500 mcd
- High Luminous Flux
- Water Clear UV Resistance Epoxy Package
- Extremely Uniform Blue Light
- 3 Different Wavelength Chips
- Iv Ranks, Luminous Intensity Bin Limits P / Q / S / T / V
- Normal Shape
- Viewing Angles 2θ ½ = 30°/ 60°
- Stand-Off Options

### APPLICATIONS

- Cavity Lights/ Effect Lights
- Legend Back Lights
- Torch / Miniature Flash Lights
- Garden Lights
- Optical Indicator Lights
- Display / Decoration Lights
- Channel Letter Lights
- Lantern Lights
- Solar Energy Lights
- Traffic Lights and Outdoor Signals
- Automotive Interior Lights
- Electronic Displays

### BENEFITS

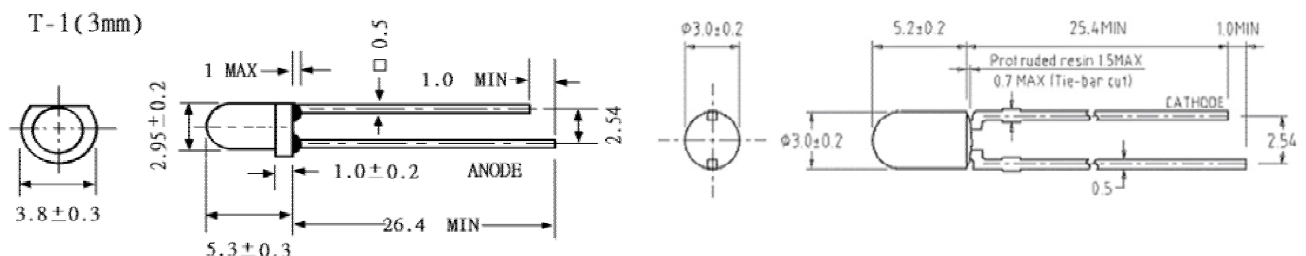
- Low Energy Consumptions
- Low Maintenance Costs
- High Application Design Flexibility
- High Reliability
- Prompt Shipment
- Very Competitive prices

### Delivery

- Bulk, 500 pieces per bag standard
- Ammo or Reel available upon request

**CAUTION:** YM-B 3 series LEDs are *Class 1 ESD* sensitive. Static Electricity and surge damage the LEDs. It is recommended to use a wristband or anti-electrostatic glove when handling LEDs. All devices, equipment and machinery must be properly grounded.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance ± 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.



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### Absolute Maximum Ratings at Ta = 25°C

Forward Voltage	V <sub>f</sub>	3.2 ± 0.3 V
Continuous Forward Current	I <sub>f</sub>	30 mA
Power Dissipation	P <sub>d</sub>	120 mW
Peak Forward Current	I <sub>fp</sub>	150 mA **
Derating Factor		0.40 mA/ °C
Reverse Voltage	V <sub>r</sub>	5 V
Operating Temperature	T <sub>op</sub>	-25 ~ +85°C
Storage Temperature	T <sub>stg</sub>	-35 ~ +100°C
Soldering Temperature	T <sub>sd</sub>	260°C / 5 Sec

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

### Iv Ranks / Luminous Intensity Bin Limits

Bin Name	Min	Max
P	880	1150
Q	1150	1500
R	1500	1900
S	1900	2500
T	2500	3200
U	3200	4200
V	4200	5500
W	5500	7200

#### Notes:

- I<sub>v</sub> Ranks Tolerance of each minimum and maximum is ± 15%
- Size:  
T1, 3mm Lens Size
- Shape:  
N: Normal
- Angle 2θ ½:  
30: 30° ± 3° / 60: 60° ± 3° available upon special request
- Stand Off:  
N: No Stand-Off / Y: With Stand-Off

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

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V <sub>f</sub>		3.2	3.5	V	I <sub>f</sub> = 20 mA
Spectrum Radiation Bandwidth	Δλ		20		nm	I <sub>f</sub> = 20 mA
Reverse Current	I <sub>r</sub>			100	μA	V <sub>R</sub> = 5V

Grade	Emission Wavelength Range λ <sub>p</sub> (nm)	Viewing Angle	Lens Shape	Luminous Intensity I <sub>v</sub> (mcd)		
				Min	Typ	Max
YM-B 3N30	465nm ~ 475nm	30°	Normal	1150		1500
YM-B 3N60		60°	Normal	880		1200

Note: 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.