

Ultra Bright Green LED Lamp

YM-G 5 Series

Y	M	-	G	5	N	15
<i>Product Code</i>		<i>Color</i>		<i>Size</i>	<i>Shape</i>	<i>Angle 2θ ½</i>
		Green		5 mm	Normal	15°

FEATURES

- Highly Luminous Ultra Bright
- InGaN / Sapphire Technology Chip
- Super Luminous Intensity 16000 mcd
- High Luminous Flux
- Water Clear UV Resistance Epoxy
- Package
- Extremely Uniform Green Light
- Iv Ranks, Luminous Intensity Bin Limits T / V / W / Y / Z
- Shape Options with Normal or Sharp
- Viewing Angles 2θ ½ = 15° / 30°
- Stand-Off Options

APPLICATIONS

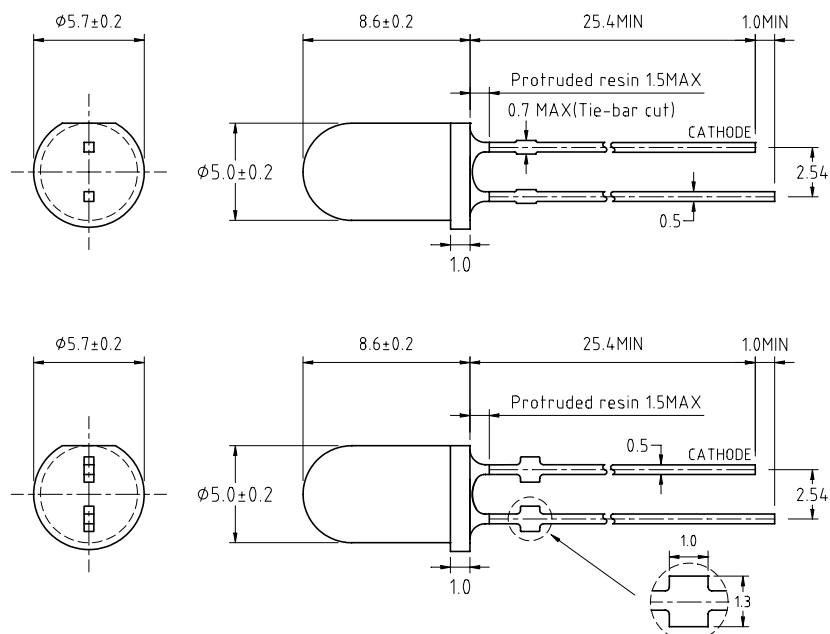
- Cavity Lights/ Effect Lights
- Legend Back Lights
- Torch / Miniature Flash Lights
- Garden Lights
- Optical Indicator Lights
- Display / Decoration Lights
- Channel Letter Lights
- Lantern Lights
- Solar Energy Lights
- Traffic Lights and Outdoor Signals
- Automotive Interior Lights
- Electronic Displays

BENEFITS

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

CAUTION: YM-G 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



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			Green	5 mm	Normal	15°

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.

Absolute Maximum Ratings at Ta = 25°C

Forward Voltage	V _f	3.2 ± 0.3 V
Continuous Forward Current	I _f	30 mA
Power Dissipation	P _d	120 mW
Peak Forward Current	I _{fp}	150 mA **
Derating Factor		0.40 mA/ °C
Reverse Voltage	V _r	5 V
Operating Temperature	T _{op}	-25 ~ +85°C
Storage Temperature	T _{stg}	-35 ~ +100°C
Soldering Temperature	T _{sd}	260°C / 5 Sec

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

Iv Ranks / Luminous Intensity Bin Limits

Bin Name	Min	Max
S	1900	2500
T	2500	3200
U	3200	4200
V	4200	5500
W	5500	7200
X	7200	9300
Y	9300	12000
Z	12000	16000

Notes:

1. I_v Ranks Tolerance of each minimum and maximum is $\pm 15\%$
2. Size:
5: 5mm / 3: 3mm Lens Size
3. Shape:
N: Normal / S: Sharp Shape
4. Angle 2θ ½:
15: 15° ± 3° / 30: 30° ± 3° / Other angles available upon special request
5. 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 _f		3.2	3.5	V	I _f = 20 mA
Spectrum Radiation Bandwidth	Δλ		20		nm	I _f = 20 mA
Dominant Wavelength	λ _p		525		nm	I _f = 20 mA
Reverse Current	I _r			100	μA	V _R = 5V

Grade	Emission Wavelength Range λ _p (nm)	Viewing Angle	Lens Shape	Luminous Intensity I _v (mcd)		
				Min	Typ	Max
YM-G 5S15	520nm ~ 530nm	15°	Sharp	7200		16000
YM-G 5N30		30°	Normal	4200		7200

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.