

Ultra Bright Yellow LED Lamp

YZ-Y 3 Series

Y	Z	-	Y	3	N	30	N
	<i>Product Code</i>		<i>Color</i>	<i>Size</i>	<i>Shape</i>	<i>Angle 2θ ½</i>	<i>Stand-Off</i>
			Yellow	3 mm	Normal	30°	No

FEATURES

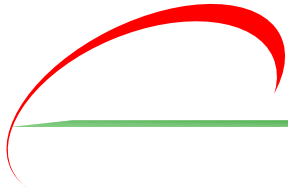
- Highly Luminous Ultra Bright Yellow
- AllnGaP / GaAs Technology Chip
- Super Luminous Intensity 5500 mcd
- Iv Ranks, Luminous Intensity Bin Limits S / T / U / V
- High Luminous Flux
- Dominate Wavelength 590 nm
- Water Clear UV Resistance Epoxy Package
- Extremely Uniform Yellow Light
- Lens Size 5mm with 3mm option
- Shape Options with Normal or Sharp
- Viewing Angles 2θ ½ = 30°, with 20° / 40° / 60° options
- Stand-Off Options

BENEFITS

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

APPLICATIONS

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

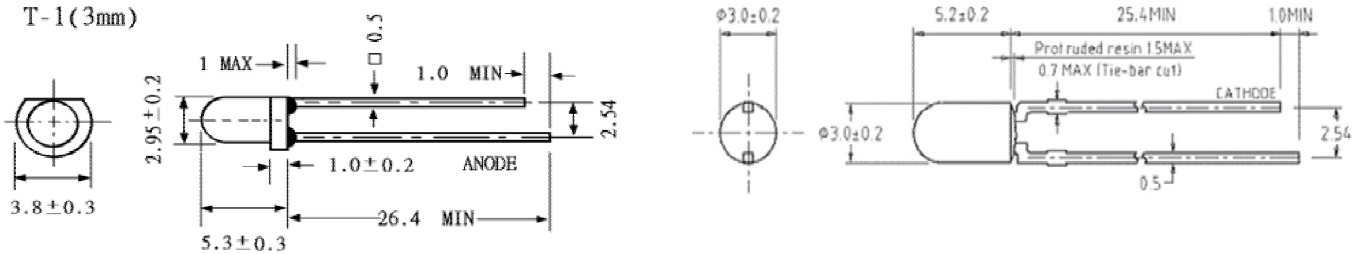


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Package Dimensions



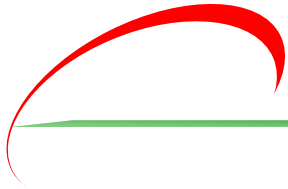
Notes:

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.

Absolute Maximum Ratings at Ta = 25°C

Forward Voltage	V _f	2.3 ± 0.3 V
Continuous Forward Current	I _f	50 mA
Power Dissipation	P _d	130 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



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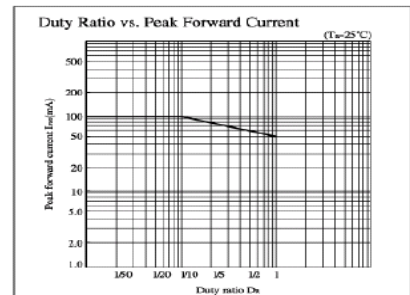
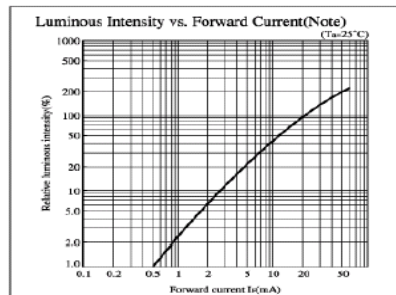
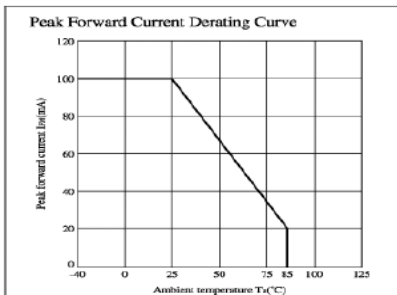
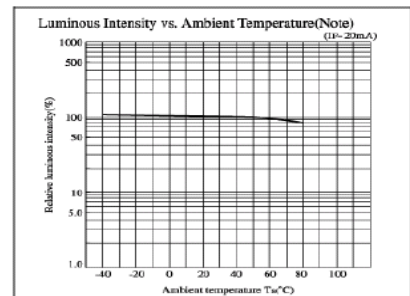
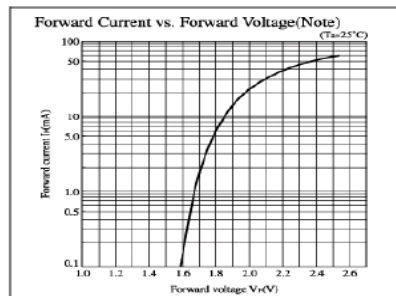
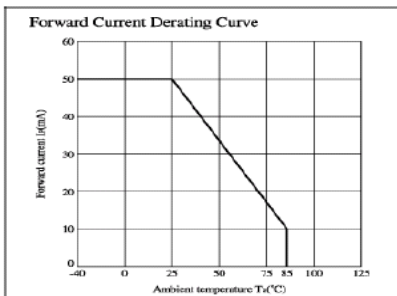
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Electrical / Optical Characteristics at Ta = 25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V _f	2.0	2.3	2.6	V	I _f = 20 mA
Dominant Wavelength	λ _d		590		nm	I _f = 20 mA
Luminous Intensity	I _v	1900	4200	5500	mcd	I _f = 20 mA
Spectrum Radiation Bandwidth	Δλ		20		nm	I _f = 20 mA
Reverse Current	I _r			10	mA	V _R = 5V

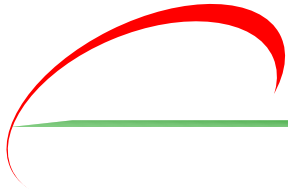
Grade	Emission Wavelength Range λ _p (nm)	Viewing Angle	Lens Shape	Luminous Intensity I _v (mcd)		
				Min	Typ	Max
YZ-Y 3N20	585nm ~ 595nm	20°	Normal	4200		5500
YZ-Y 3N30		30°	Normal	3200		4200
YZ-Y 3N40		40°	Normal	2500		3200
YZ-Y 3N60		60°	Normal	1900		2500

Electrical / Optical Characteristics Diagram at Ta = 25°C



Iv Ranks / Luminous Intensity Bin Limits

Bin Name	Min	Max
S	1900	2500
T	2500	3200
U	3200	4200
V	4200	5500



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Notes:

1. YZ-Y series can supply the above listed S/T/U/V I_v ranks.
2. I_v Ranks Tolerance of each minimum and maximum is ± 15%
3. Size: 5: 5mm / 3: 3mm Lens Size
4. Shape: N: Normal / S: Sharp Shape
5. Angle 2θ ½: 30: 30°± 3°; options include 20: 20°± 3° / 40: 40°± 3° / 60: 60°± 3°
6. Stand Off: N: No Stand-Off / Y: With Stand-Off
7. Flange: Optional

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.

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