

Ultra Bright Red LED Lamp

YZ-R 3 Series

Y	Z	-	R	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>
			Red	3 mm	Normal	30°	No

FEATURES

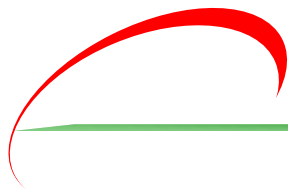
- Highly Luminous Ultra Bright Red
- AllnGaP / GaAs Technology Chip
- Super Luminous Intensity 5500 mcd
- Iv Ranks, Luminous Intensity Bin Limits S / T / U / V
- High Luminous Flux
- Dominate Wavelength 625 nm
- Water Clear UV Resistance Epoxy Package
- Extremely Uniform Red Light
- Lens Size 3mm option
- 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

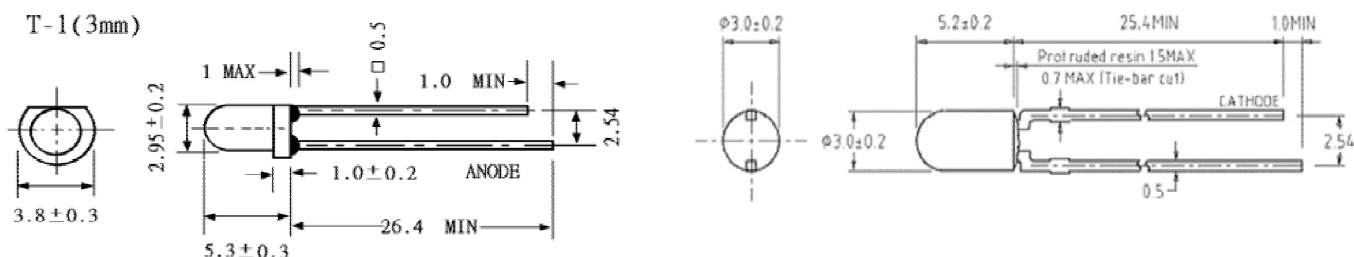


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Package Dimensions



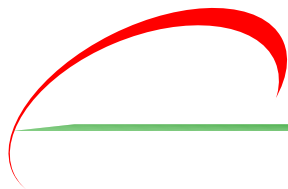
Notes:

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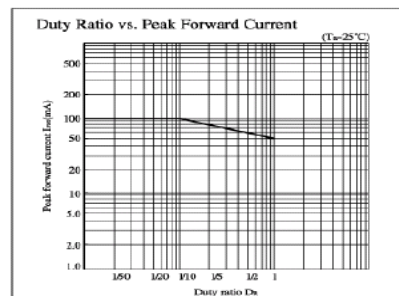
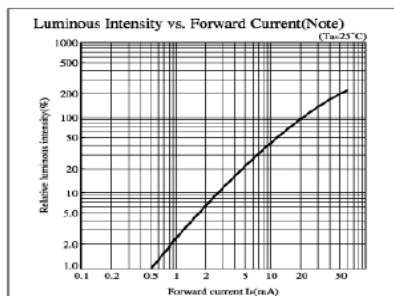
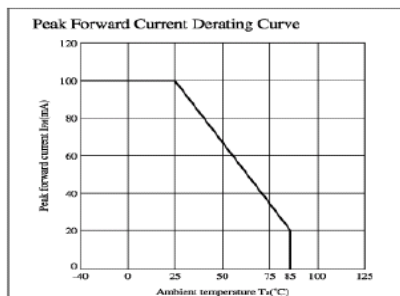
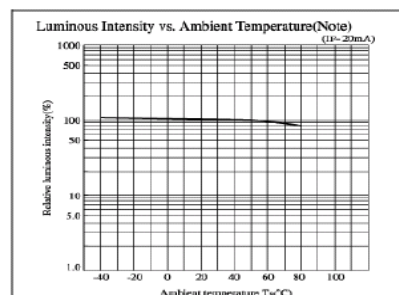
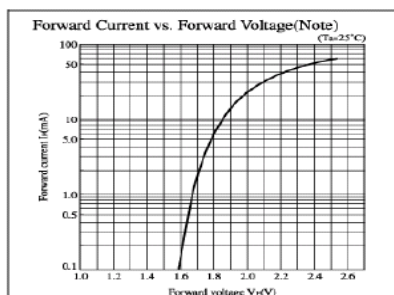
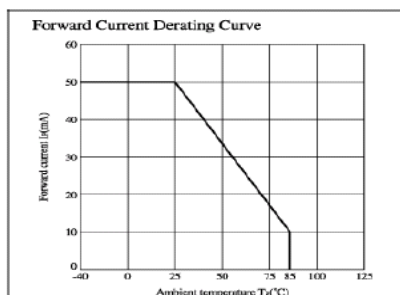
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Electrical / Optical Characteristics at Ta = 25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V_f	2.0	2.3	2.6	V	$I_f = 20 \text{ mA}$
Dominant Wavelength	λ_d		625		nm	$I_f = 20 \text{ mA}$
Luminous Intensity	I_v	1900	4200	5500	mcd	$I_f = 20 \text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$		20		nm	$I_f = 20 \text{ mA}$
Reverse Current	I_r			10	mA	$V_R = 5 \text{ V}$

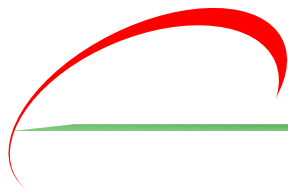
Grade	Emission Wavelength Range λ_p (nm)	Viewing Angle	Lens Shape	Luminous Intensity I_v (mcd)		
				Min	Typ	Max
YZ-R 3N20	620nm ~ 630nm	20°	Normal	4200		5500
YZ-R 3N30		30°	Normal	3200		4200
YZ-R 3N40		40°	Normal	2500		3200
YZ-R 3N60		60°	Normal	1900		2500

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
W	5500	7200



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Notes:

1. YZ-R 3 series can supply the above listed S/T/U/V/W 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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