

FEATURES

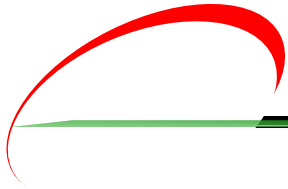
- **Highly Luminous Ultra Bright Orange**
- **AlGaInP Technology Chip**
- **Super Luminous Intensity**
- **Iv Ranks, Luminous Intensity Bin Limits S / T / U / V / W**
- **High Luminous Flux**
- **Dominate Wavelength 610 nm**
- **Water Clear UV Resistance Epoxy Package**
- **Extremely Uniform Red Light**
- **Lens Size 5mm with 3mm option**
- **Shape Options with Normal or Sharp**
- **Viewing Angles $2\theta \frac{1}{2} = 30^\circ$, with 15° options**
- **Stand-Off Options**

BENEFITS

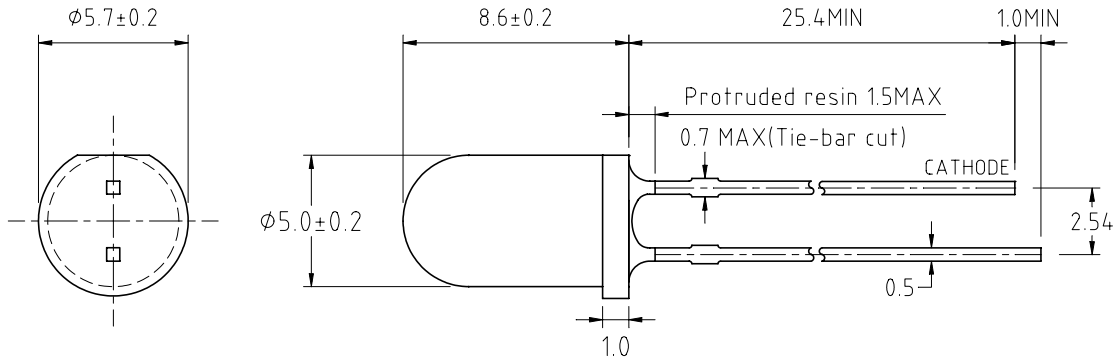
- **Low Energy Consumptions**
- **Low Maintenance Costs**
- **High Application Design Flexibility**
- **High Reliability**
- **Prompt Shipment**
- **Very Competitive prices**

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.

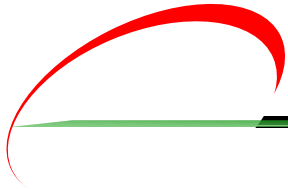
Delivery

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

Absolute Maximum Ratings at Ta = 25°C

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



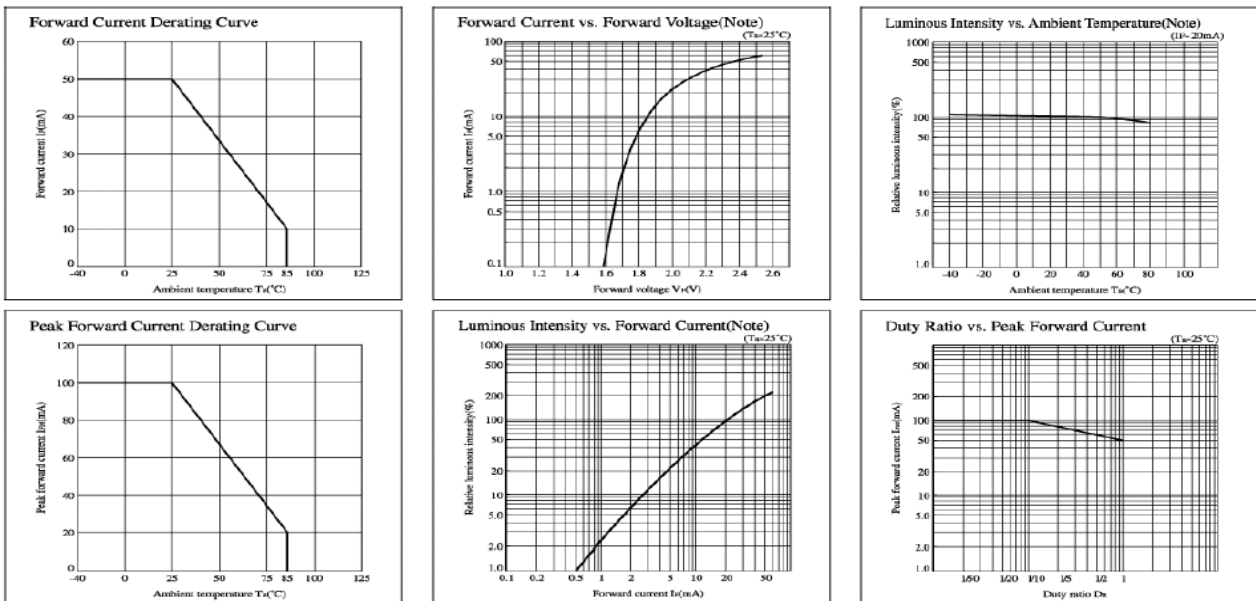
Electrical / Optical Characteristics at Ta = 25°C

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V_f		2.0	2.6	V	$I_f = 20 \text{ mA}$
Dominant Wavelength	λ_d		610		nm	$I_f = 20 \text{ mA}$
Luminous Intensity	I_v	1900		7200	mcd	$I_f = 20 \text{ mA}$
Spectrum Radiation Bandwidth	$\Delta\lambda$		20		nm	$I_f = 20 \text{ mA}$
Reverse Current	I_r			10	mA	$V_R = 5V$

Grade	Emission Wavelength Range λ_p (nm)	Viewing Angle	Lens Shape	Luminous Intensity I_v (mcd)		
				Min	Typ	Max
YA-OT5N15N	600nm ~ 620nm	15°	Normal	3200		7200
YA-OV5N30N		30°	Normal	1900		5500

In Stock

Electrical / Optical Characteristics Diagram at Ta = 25°C

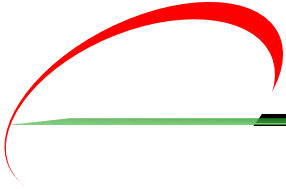


Iv Ranks / Luminous Intensity Bin Limits (mcd @20 mA)

Bin Name	Min	Max
S	1900	2500
T	2500	3200
U	3200	4200
V	4200	5500
W	5500	7200

Color Rank λ_d (nm @20 mA)

Rank	Min.	Max.
1	600	605
2	605	610
3	610	615
4	615	620



Notes:

1. YA-O 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 $\pm 15\%$
3. Size: 5: 5mm / 3: 3mm Lens Size
4. Shape: N: Normal / S: Sharp Shape
5. Angle 2θ 1/2: 30: $30^\circ \pm 3^\circ$; options include 15: $15^\circ \pm 3^\circ$
6. Stand Off: N: No Stand-Off / Y: With Stand-Off

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.