

333UGJ-1/R01

Description

- Size: 5mm round (T-13/4).
- Emitting color: Ultra greenish-yellow.

Main Features

- Instant light less than 100ns turn on time.
- Superior resistance to moisture.
- Low drive current, recommend forward current: IF= 10- 20mA.

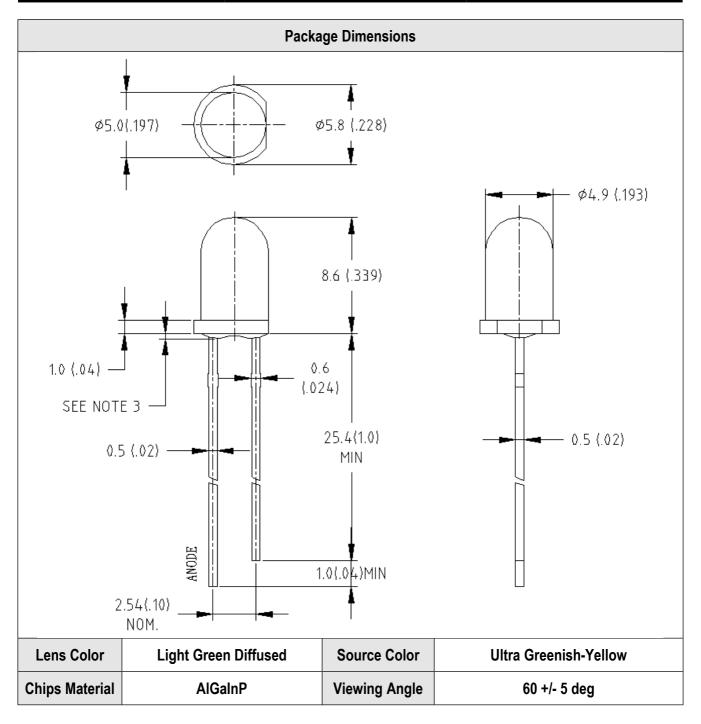
- Lens color: Green diffused with internal resistor.
- Lead type: Radial leads.
 - Cool beam, safe to touch.
 - Reliable and rugged.

Absolute Maximum Rating TA=25°C										
Parameter	Symbol	Rating	Unit	Notice						
Power Dissipation	Pd	90	mW	IF = 20mA						
DC Forward Current	lF	30	mA							
Pulse Forward Current	IF (PEAK)	90	mA	Duty 1/10 @ 1KHz						
Derating Linear From 50°C		0.4	mA / °C							
Reverse Voltage	VR	5	V	Under 100uA						
Operating Temperature Range	T OPR	-25 to +70	°C							
Storage Temperature Range	T stg	-40 to +80	°C	Humidity should be under 50%						
Lead Soldering Temperature	T SOL	260 +/-5	260 +/-5 °C 4mm (0.157") from mold then 5 Second							

Part Selection Electrical / Optical Characteristics At TA-25°C											
Characteristic	Symbol	Test Condition		Min.	Тур.	Max.	Unit.				
Forward Voltage	VF	lf	=20mA	9	12	18	V				
Reverse Current	lr	Vr	=5V	_	-	10	uA				
Luminous Intensity (Note 1)	lv	lf	=20mA	100	150	200	mcd				
Peak Emission Wavelength	λр	lf	=20mA	568	572	575	nm				
Spectral Line Half Width	Δλ	lf	=20mA	23	25	28	nm				
Dominant Wavelength (Note 2)	λd	lf	=20mA	565	570	575	nm				

Note 1 : Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Note 2 : The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

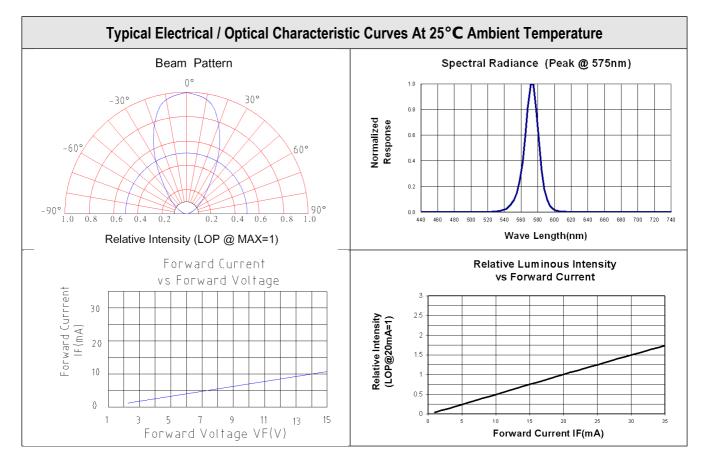




NOTES:

- All dimensions are in millimeters (inches).
- Tolerance is ±0.25 mm (.010") unless otherwise noted.
- Protruded resin under flange is 1.0mm(.04") max
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.





NOTE:

- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- Clean only in isopropanol, ethanol, Freon TF (or equivalent).
- When using this product, Please observe the absolute maximum rating and the instructions for use outlined from use of the product, which does not comply with the absolute maximum rating and the instructions included in these specification sheet.
- Q.A Outgoing inspection standard:

Major Defect 0.65 A.Q.L. Minor Defect 1.5 A.Q.L

- Check at a distance of 30cm from the LED to the eye defects.
- Lead Forming:

If forming is required, it must be done before soldering. Form pin leads by securing under 5mm from body and bedding with radio pliers or the equivalent to avoid pressure on resin. When the LED is mounted into a P.C.board, pitch spacing should be aligned to prevent cause any stress to the resin. Any unsuitable stress applied to resin may break bonding wire in LED, which will cause failure.

• Over-current-proof:

Customer must apply resistor for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

• Parallel connection:

Customer must apply series resistor in **EACH LED** under parallel connection. Otherwise VF tolerance will cause LED array brightness uneven.

• Specifications are subject to change without notice.

