

333UIC-1N

Description

- Size: 5mm round (T-1 3/4).
- Emitting color: Ultra red.

Main Features

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

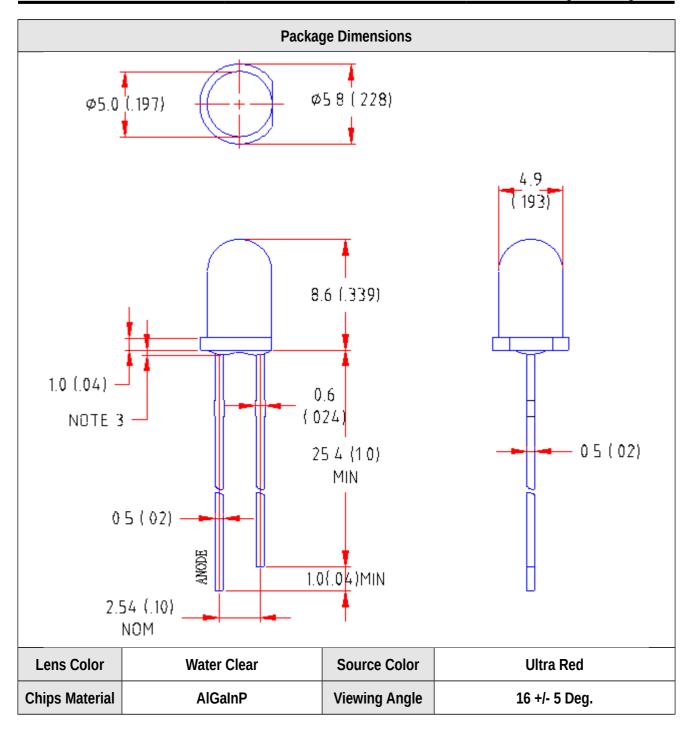
- Lens color: Water clear.
- Lead type: Radial leads.
 - Cool beam, safe to touch.
 - Water clear lens.
 - Pb Free

Absolute Maximum Rating TA=25°C									
Parameter	Symbol	Rating	Unit	Notice					
Power Dissipation	Pd	90	mW	IF = 20mA					
DC Forward Current	lF	25	mA						
Pulse Forward Current	IF (PEAK)	100	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	°C	4mm (0.157") from mold body Les then 5 Second					

Part Selection Electrical / Optical Characteristics At TA-25°C									
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit.			
Forward Voltage	VF	l⊧ =20mA		2.00	2.40	V			
Reverse Current	lr	Vr =5V	_	_	10	uA			
Luminous Intensity (Note 1)	lv	l⊧ =20mA	800	1200	2400	mcd			
Peak Emission Wavelength	λρ	l⊧ =20mA	630	635	640	nm			
Spectral Line Half Width	Δλ	l⊧ =20mA	17	20	23	nm			
Dominant Wavelength (Note 2)	λd	l⊧ =20mA	625	630	635	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.

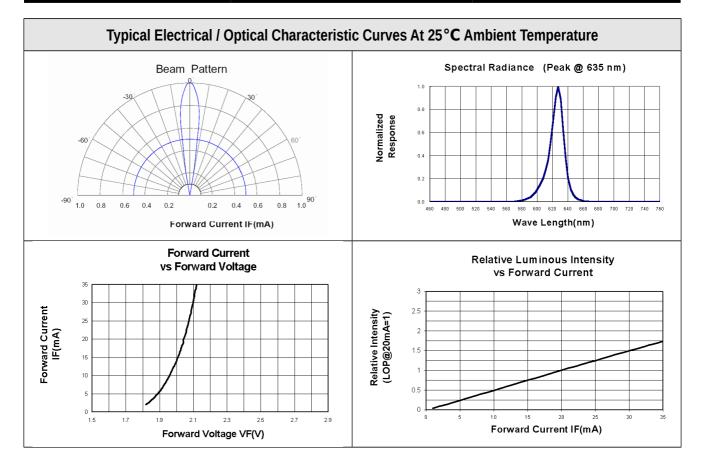




NOTES:

- 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.
- 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.

• 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.

• 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.

