

AX180UYC-1

Emitting Light Diode

Description

• Size: 2.1*2.4mm with 1,8mm lens.

Emitted color: Ultra yellow.

Main Features

Instant light less than 100ns turn on time.

Superior resistance to moisture.

Low drive current, recommend forward

Lens color: Water clear.

Lead type: Axial lead

current: IF= 10- 20mA.

Pb-free.

Cool beam, safe to touch.

Reliable and rugged.

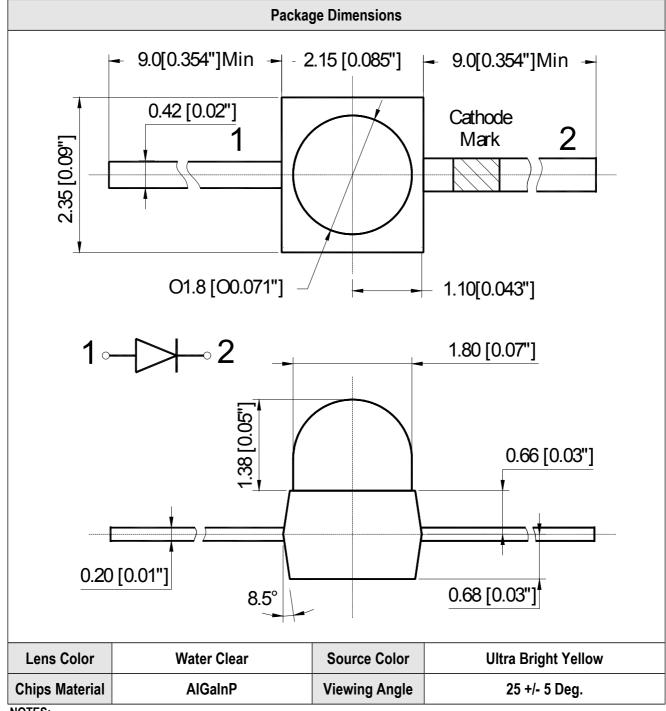
Absolute Maximum Rating TA=25°C									
Parameter	Symbol	Rating	Unit	Notice					
Power Dissipation	Pd	80	mW						
DC Forward Current	lF	25	mA						
Pulse Forward Current	IF (PEAK)	80	mA	Duty 1/10 @ 1KHz					
Reverse Voltage	VR	5	V	Under 100uA					
Operating Temperature Range	T OPR	-20 to +80	°C						
Storage Temperature Range	Tstg	-25 to +85	°C	Humidity should be under 50%					
Lead Soldering Temperature	T sol	260 +/-5	°C	4mm (0.157") from mold body Less then 5 Second					

Part Selection Electrical / Optical Characteristics At TA-25°C									
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit.			
Forward Voltage	VF	IF =20mA		2.00	2.40	V			
Reverse Current	lR	VR =5V	_		10	uA			
Luminous Intensity (Note 1)	lv	IF =20mA	455	780	1560	mcd			
Peak Emission Wavelength	λр	IF =20mA	585	590	595	nm			
Spectral Line Half Width	Δλ	IF =20mA	18	20	23	nm			
Dominant Wavelength (Note 2)	λd	IF =20mA	586	591	596	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 (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

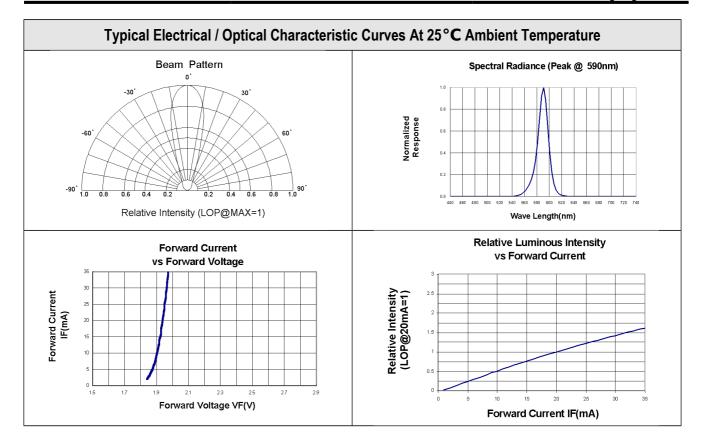




NOTES:

- 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:

- \bullet $\theta_{1/2}$ 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 resistors 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 difference will cause LED array lighting not even.

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