



## 10.0mm Round Type LED Lamps

PART NO: FYL-10013URC

REV NO: 1.0

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### Features:

Ultra Red brightness.

Choice of various viewing angles.

Lens color Water clear.

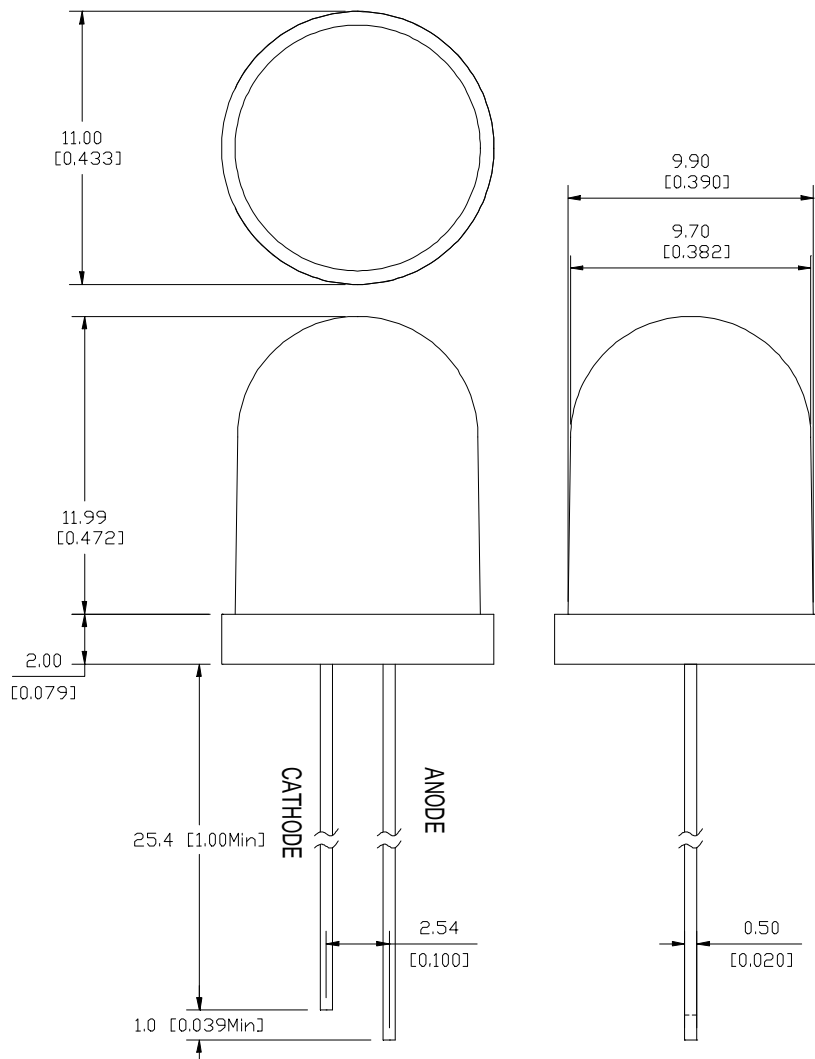
Popular T-1 3/4 diameter package.

IC compatible /Low current capability.

### Descriptions:

The LED lamps are available with different colors , intensities , epoxy colors etc.

### Package Dimensions:



### NOTES:

1. All dimension are in millimeters(inch).
2. An epoxy meniscus may extend about 1.5mm down to the lead.
3. Tolerances unless dimension  $\pm 0.25$ mm.



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PART NO: FYL-5013URC

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Absolute Maximum Ratings at Ta=25

Parameter	Symbol	Rating	Unit
Forward Current	I <sub>F</sub>	30	mA
Power Dissipation	P <sub>d</sub>	78	mW
Reverse Voltage	V <sub>R</sub>	5	V
Peak Forward Current (Duty 1/10 @1KHZ)	I <sub>PF</sub>	100	mA
Operation Temperature	T <sub>OPR</sub>	-30 to +80	
Storage Temperature	T <sub>STG</sub>	-40 to +85	
Lead Soldering Temperature	T <sub>SOL</sub>	Max.260 ± 5 for 3 sec Max. (1.6mm from the base of the epoxy bulb)	

Electronic Optical Characteristics at Ta=25

Items	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V <sub>F</sub>	-	2.10	2.60	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	-	-	10	uA	V <sub>R</sub> =5V
Peak Wavelength	λ <sub>P</sub>	-	640	-	nm	I <sub>F</sub> =20mA
Spectrum Line Half width		-	20	-	nm	I <sub>F</sub> =20mA
Luminous Intensity	I <sub>V</sub>	-	8000	-	mcd	I <sub>F</sub> =20mA
Viewing Angle	2 1/2		20 °	-	degree	I <sub>F</sub> =20mA

Specifications for Bin grading

(unit: mcd I<sub>F</sub>=20mA)

Bin Code	Min.	Max.	Bin Code	Min.	Max.

Specifications for Voltage

(unit: V I<sub>F</sub>=20mA)

Rank					
Voltage					

Specifications for Dominant Wavelength

(unit: nm I<sub>F</sub>=20mA)

Rank					
Dominant Wavelength					