

Ultra Bright Red Solid State Lamps T-1³/4 Standard 5φ LED LTL-307URK

Package Dimensions

LTL-307CK

Features

- · Ultra- brightness.
- · New sturdy leads.
- · I.C. Compatible/low current capability.
- · Reliable and rugged.

Description

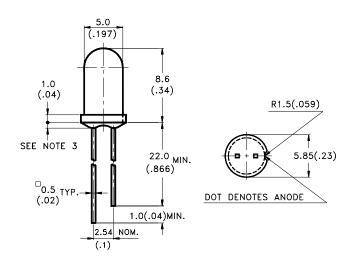
The source color devices are made with Aluminum Gallium Arsenide Light emitting diode.

LTL-307URK is made with high performance AlGaAs dice.

LTL-307CK is made with DH AlGaAs dice.

The devices are made with water clear epoxy package. These ultra bright lamps out perform conventional LED lamps.

By utilizing new higher intensity material, we achieve superior product performance.



Notes:

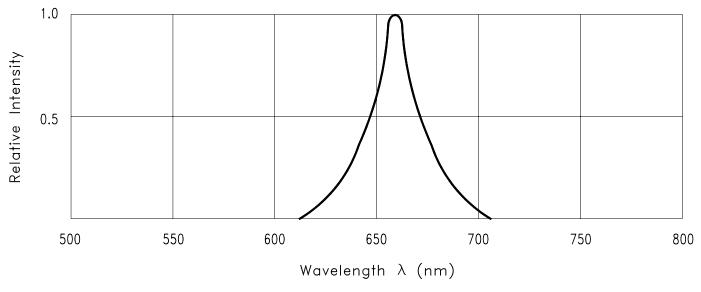
- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm (.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Devices

Part No. LTL-	Lens	Source Color		
307URK	Water Clear	AlGaAs Red		
307CK	Water Clear	AlGaAs Red		

Absolute Maximum Ratings at Ta=25°C

Parameter	Maximum Rating	Unit			
Power Dissipation	100	mW			
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	200	mA			
Continuous Forward Current	40	mA			
Derating Linear From 50°C	0.5	mA/°C			
Reverse Voltage	4	V			
Operating Temperature Range	-40°C to +100°C				
Storage Temperature Range	-55°C to +100°C				
Lead Soldering Temperature [1.6mm (.063") From Body]	260°C for 5 Seconds				





ULTRA BRIGHT Lamps & Cluste & Chmsl

Parameter	Symbol	Part No. LTL-	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	307URK 307CK	200 100	1200 500		mcd	l⊧=20mA Note 1,2
Viewing Angle	2 ⊕¹/ ₂			35		deg	Note 3 (Fig. 5)
Peak Emission Wavelength	λΡ			660		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd			638		nm	Note 6
Spectral Line Half-Width	Δλ			20		nm	
Forward Voltage	VF			1.8	2.4	V	I⊧=20mA
Reverse Current	lĸ				100	μ Α	V _R =4V
Capacitance	С			30		pF	VF=0 , f=1MHz

Electrical /Optical Characteristics and Curves at Ta=25°C

Notes:1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2. Luminous intensity rank classified products support two ranks.

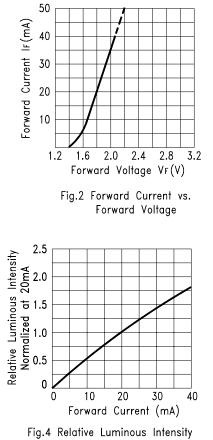
3. $\theta^{1\!/_2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

4. Iv classification code is marked on each packing bag.

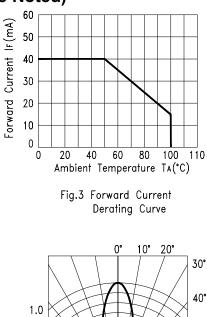
5. The Iv guarantee should be added \pm 15%.

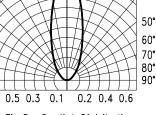
6. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)



vs. Forward Current





0.9

0.8

0.7