

Oval 5mm Ultra Bright AlGaAs Red LED Lamps

Package Dimensions

LTL-2D3URK 70/35degree

Features

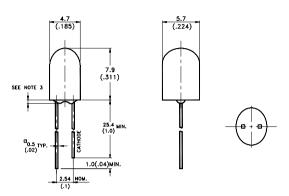
- · High luminous intensity output.
- Low power consumption.
- · High efficiency.
- Versatile mounting on P.C. board or panel.
- I.C. compatible/low current requirements.
- · Widely viewing angle.

Description

The source color device is made with Aluminum Gallium Arsenide light emitting diode.

LTL-2D3URK is made with high performance AlGaAs dice.

The devices are made with water clear epoxy package, and with 70/35degrees of viewing angle.



Notes:

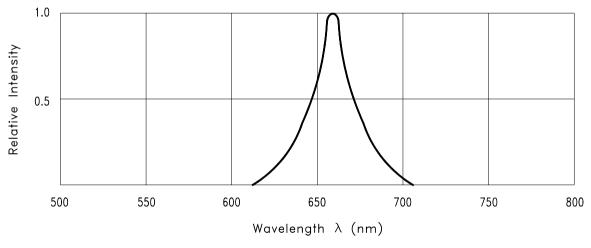
- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm (.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

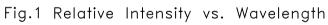
Devices

Part No. LTL-	Lens	Source Color		
2D3URK	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				





Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Ιv	100	300		mcd	I⊧=20mA Note 1,2
Viewing Angle	2 ⊕¹/₂		70/35		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	IF=20mA
Reverse Current	IR			100	μA	VR=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.

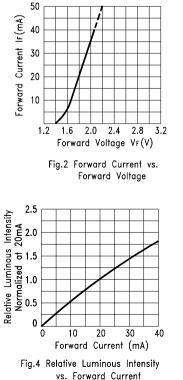
3. $\theta^{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

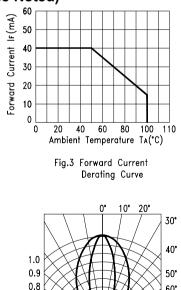
4. Iv classification code is marked on each packing bag.

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

The dominant wavelength,
\u03c4 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)





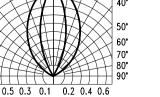


Fig.5 Spatial Distribution

0.7