

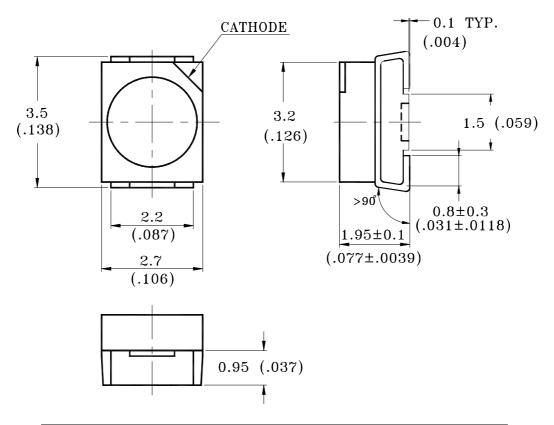
# LITEON ELECTRONICS, INC.

### Property of LITE-ON Only

### **Features**

- \* Package in 8mm tape on 7" diameter reels.
- \* Compatible with automatic placement equipment.
- \* Compatible with infrared and vapor phase reflow solder process.
- \* EIA STD package.
- \* I.C. compatible.

### **Package Dimensions**



Part No.	Lens Color	Source Color
LTST-T670EKTDL	Water Clear	Red Orange

### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.2$  mm (.008") unless otherwise noted.

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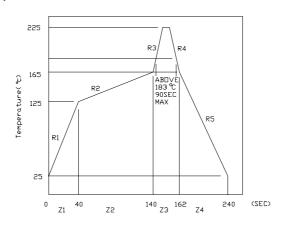
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## Absolute Maximum Ratings at Ta=25℃

Parameter	LTST-T670EKTDL	Unit			
Power Dissipation	100	mW			
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	mA			
Continuous Forward Current	30	mA			
Derating Linear From 50°C	0.6	mA/°C			
Reverse Voltage	5	V			
Operating Temperature Range	-55°C to + 100°C				
Storage Temperature Range	-55°C to + 100°C				
Infrared Soldering Cndition	265°C For 5 Seconds				
Vapor Phase Soldering Condition	215°C For 3 Minutes				
Wave Soldering Temperature	260°C For 5 Seconds				

### Suggest IR Reflow Condition:



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### Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Part No. LTST-	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	IV	T670EKTDL	4.0		32	mcd	IF = 10mA Note 1	
Viewing Angle	2θ1/2	T670EKTDL		120		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λΡ	T670EKTDL		635		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	T670EKTDL		621		nm	Note 3	
Spectral Line Half-Width	Δλ	T670EKTDL		40		nm		
Forward Voltage	VF	T670EKTDL		2.0	2.8	V	IF = 20mA	
Reverse Current	IR	T670EKTDL			100	$\mu$ A	VR = 5V	
Capacitance	С	T670EKTDL		20		PF	VF = 0, f=1MHZ	

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

- $2. \theta 1/2$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength,  $\lambda$  d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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### **Typical Electrical / Optical Characteristics Curves**

(25°C Ambient Temperature Unless Otherwise Noted)

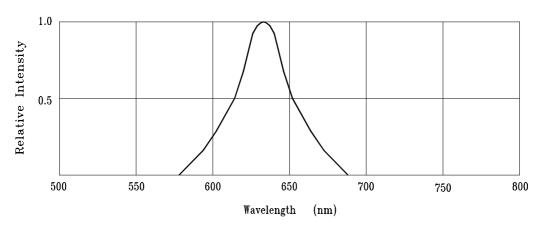
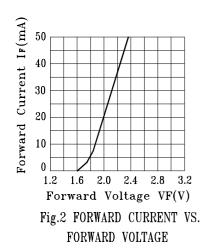
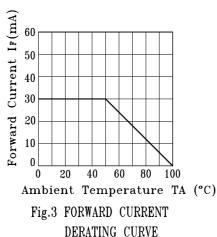
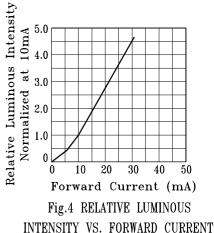
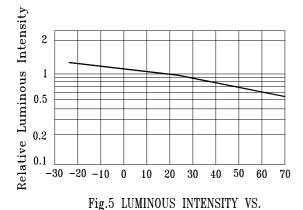


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH









AMBIENT TEMPERATURE.

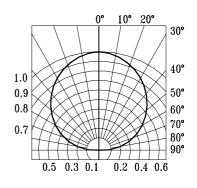


Fig.6 SPATIAL DISTRIBUTION

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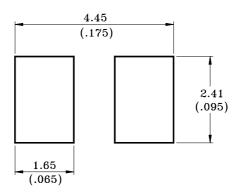
### User Guide

### Cleaning

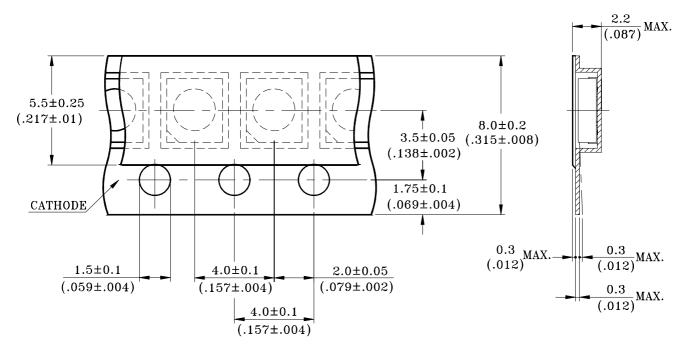
Do not use unspecified chemical liquid to clean LED they could harm the package. If cleaning is necessary, immerse the LED in ethyl alcohol or isopropyl alcohol at normal temperature for less one minute.

### Recommend Printed Circuit Board Attachment Pad

Infrared / vapor phase Reflow Soldering



### Package Dimensions of Tape



Note:

1.All dimensions are in millimeters (inches).

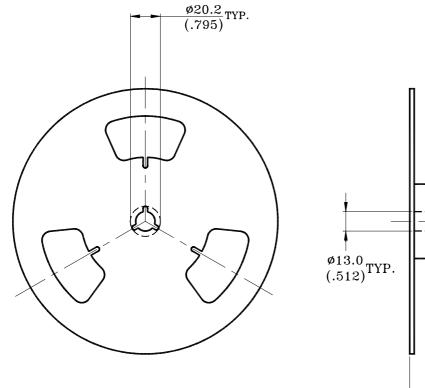
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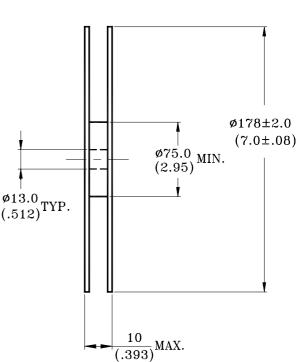


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### Package Dimensions of Reel





### Notes:

- 1. Empty component pockets sealed with top cover tape.
- 2. 7 inch reel-2000 pieces per reel.
- 3. The maximum number of consecutive missing lamps is two.
- 4. In accordance with ANSI/EIA RS-481 specifications.

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