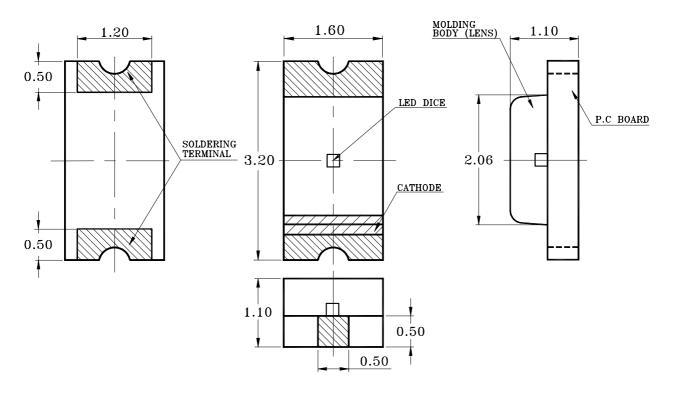


## Property of Lite-On Only

#### **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	Source Color
LTST-C150YKT	Water Clear	GaAsP on GaP Yellow

#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm$  0.1mm (.004") unless otherwise noted.

Part No.: LTST-C150YKT Page: 1 of 6

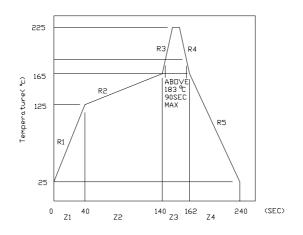


## Property of Lite-On Only

## Absolute Maximum Ratings At Ta=25℃

Parameter	LTST-C150YKT	Unit		
Power Dissipation	60	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA		
Continuous Forward Current	20	mA		
Derating Linear From 50°C	0.4	mA/°C		
Reverse Voltage	5	V		
Operating Temperature Range	-55°C to +85°C			
Storage Temperature Range	-55°C to +85°C			
Wave Soldering Condition	260°C For 5 Seconds			
Infrared Soldering Condition	260°C For 5 Seconds			
Vapor Phase Soldering Condition	215°C For 3 Minutes			

## Suggest IR Reflow Condition:



Part No.: LTST-C150YKT Page: 2 of 6



## Property of Lite-On Only

## Electrical Optical Characteristics At Ta=25°C

Parameter	Symbol	Part No. LTST-	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	IV	C150YKT	1.0	6.0	30.0	mcd	IF = 10mA Note 1
Viewing Angle	2 θ 1/2	C150YKT		130		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ Peak	C150YKT		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	C150YKT		588		nm	Note 3
Spectral Line Half-Width	Δλ	C150YKT		35		nm	
Forward Voltage	VF	C150YKT		2.1	2.6	V	IF = 20mA
Reverse Current	IR	C150YKT			100	$\mu$ A	VR = 5V
Capacitance	С	C150YKT		30		PF	VF = 0 f = 1MHZ

Notes: 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.

Part No.: LTST-C150YKT Page: 3 of 6

Property of Lite-On Only

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

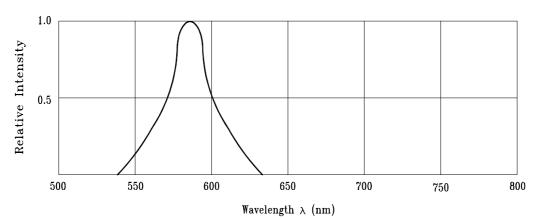
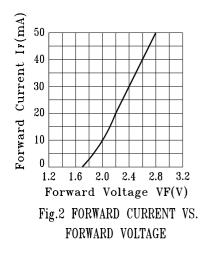
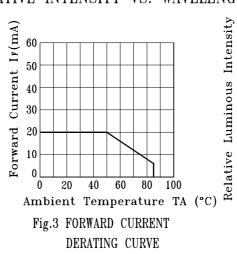
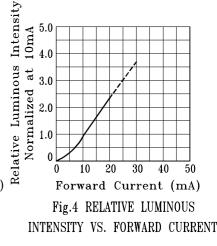
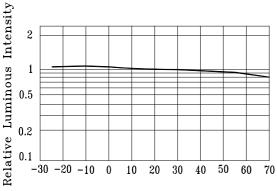


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH









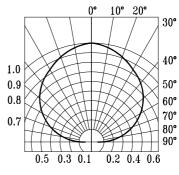


Fig.5 LUMINOUS INTENSITY VS. Fig.6 SPATIAL DISTRIBUTION AMBIENT TEMPERATURE.

Part No.: LTST-C150YKT Page: 4 of 6



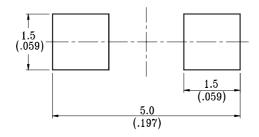
## Property of Lite-On Only

## Cleaning

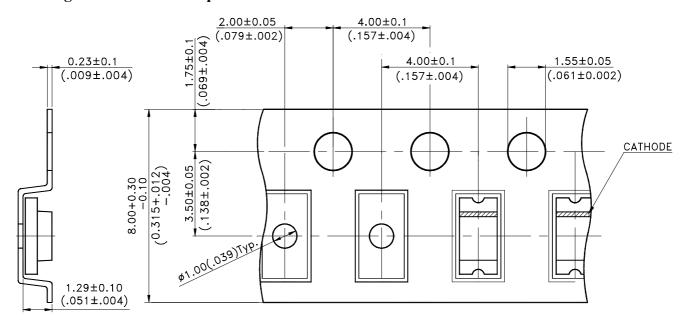
Do not use unspecified chemical liquid to clean LED they could harm the package.

If clean is necessary, immerse the LED in ethyl alcohol or in isopropyl alcohol at normal temperature for less one minute.

#### **Suggest Soldering Pad Dimensions**



### **Package Dimensions Of Tape And Reel**



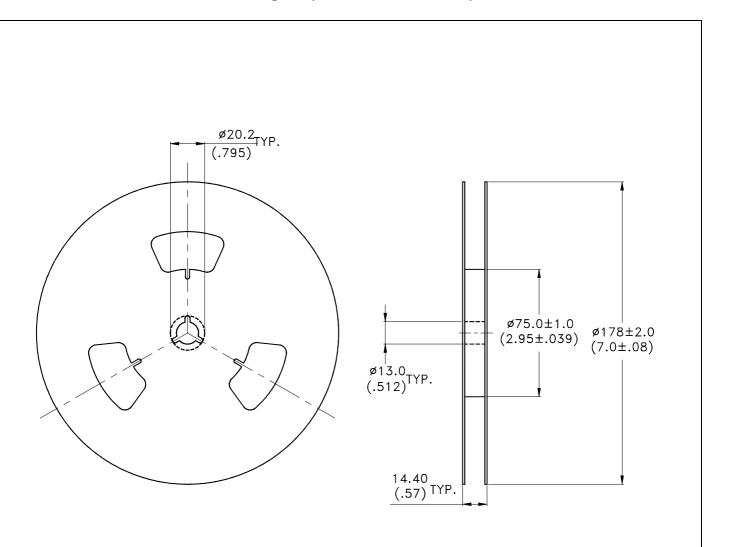
#### Notes:

1. All dimensions are in millimeters (inches).

Part No.: LTST-C150YKT Page: 5 of 6



## Property of Lite-On Only



#### Notes:

- 1. Empty component pockets sealed with top cover tape.
- 2. 7 inch reel-3000 pieces per reel.
- 3. The maximum number of consecutive missing lamps is two.
- 4. In accordance with ANSI/EIA RS-481 specifications.

Part No.: LTST-C150YKT Page: 6 of 6