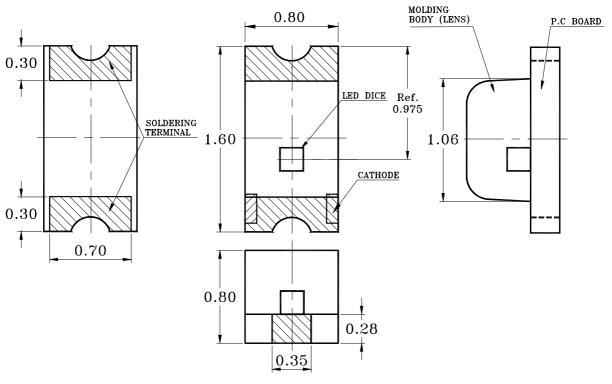
# Property of Lite-On Only

#### **Features**

- \* Ultra bright AlInGaP Chip LED.
- \* 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-C190JSKT	Water Clear	AllnGaP Yellow

#### Notes:

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

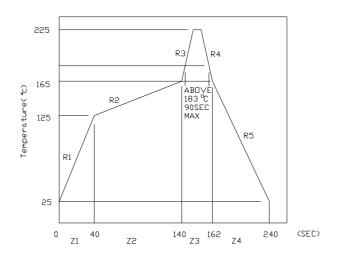
Part No.: LTST-C190JSKT Page: of 6

# Property of Lite-On Only

### Absolute Maximum Ratings At Ta=25°C

Parameter	LTST-C190JSKT	Unit		
Power Dissipation	75	mW		
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA		
Continuous Forward Current	30	mA		
Derating Linear From 25°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:



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# LITE-ON ELECTRONICS, INC.

# Property of Lite-On Only

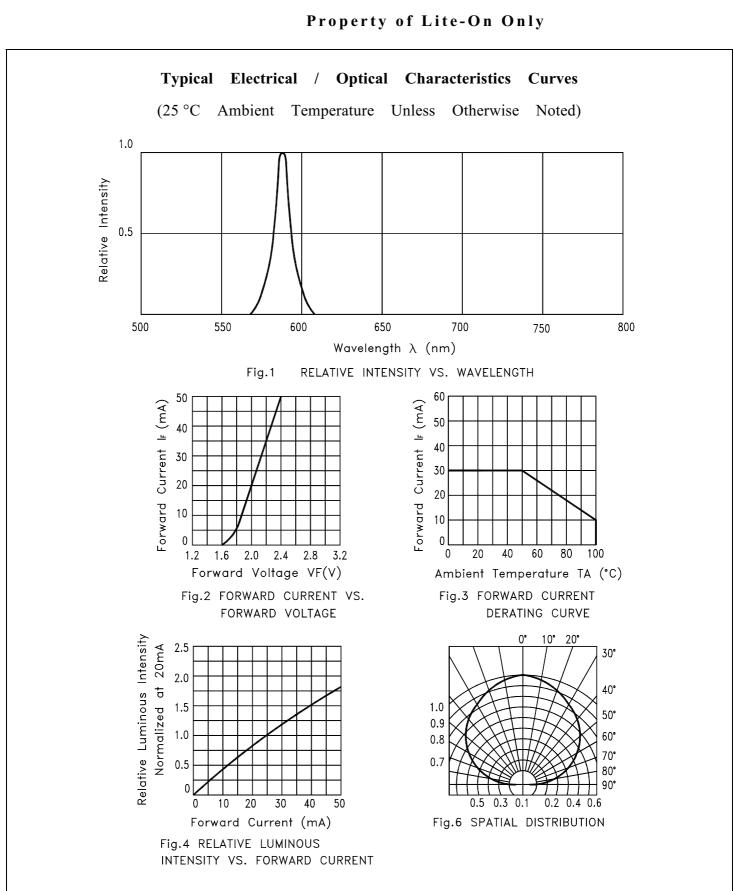
# Electrical Optical Characteristics At Ta=25°C

Parameter	Symbol	Part No. LTST-	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	IV	C190JSKT	20.0	30.0		mcd	IF = 20mA Note 1	
Viewing Angle	2 \theta 1/2	C190JSKT		130		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λΡ	C190JSKT		588		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	C190JSKT		587		nm	Note 3	
Spectral Line Half-Width	Δλ	C190JSKT		15		nm		
Forward Voltage	VF	C190JSKT		2.0	2.4	V	IF = 20mA	
Reverse Current	IR	C190JSKT			100	μΑ	VR = 5V	
Capacitance	С	C190JSKT		40		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.

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of

6

Part

No.: LTST-C190JSKT



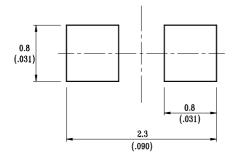
### Property of Lite-On Only

### Cleaning

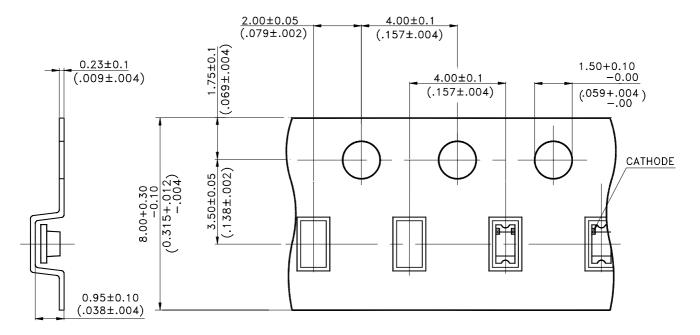
Do not use unspecified chemical liquid to clean LED they could harm the package.

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**



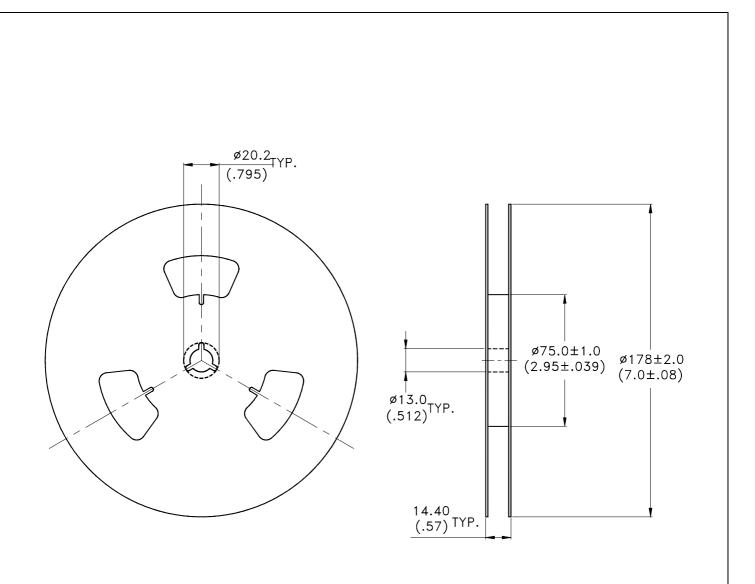
#### Notes:

1. All dimensions are in millimeters (inches).

Part No.: LTST-C190JSKT Page	: 5	of	6	
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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 481-1-A-1994 specifications.

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