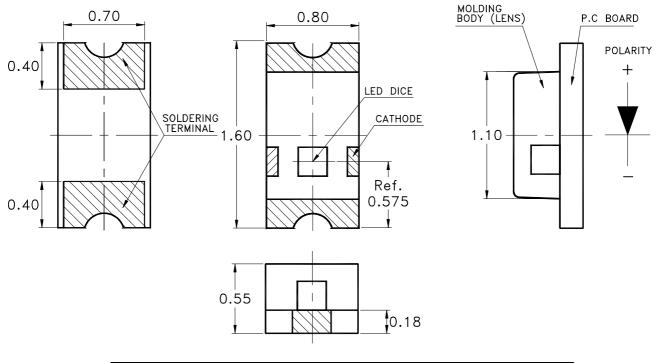
## Property of Lite-On Only

#### **Features**

- \* Super thin (0.55H mm) Chip LED.
- \* 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.	rt No. Lens Sou	
LTST-C191KRKT	Water Clear	AllnGaP Super Red

#### Notes:

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

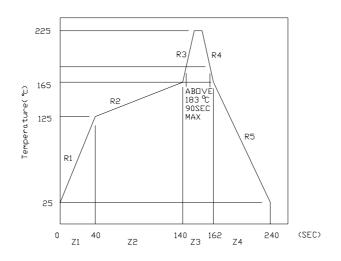
Part No.: LTST-C191KRKT Page: 1 of 6

## Property of Lite-On Only

## Absolute Maximum Ratings At Ta=25°C

Parameter	LTST-C191KRKT	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:



No.: LTST-C191KRKT Page: 2 of 6



## 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	C191KRKT	25.0	54.0		mcd	IF = 20mA Note 1
Viewing Angle	2 0 1/2	C191KRKT		130		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λ Ρ	C191KRKT		639		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	C191KRKT		631		nm	Note 3
Spectral Line Half-Width	Δλ	C191KRKT		20		nm	
Forward Voltage	VF	C191KRKT		2.0	2.4	V	IF = 20mA
Reverse Current	IR	C191KRKT			100	μΑ	VR = 5V
Capacitance	С	C191KRKT		40		PF	VF = 0 f = 1MHZ

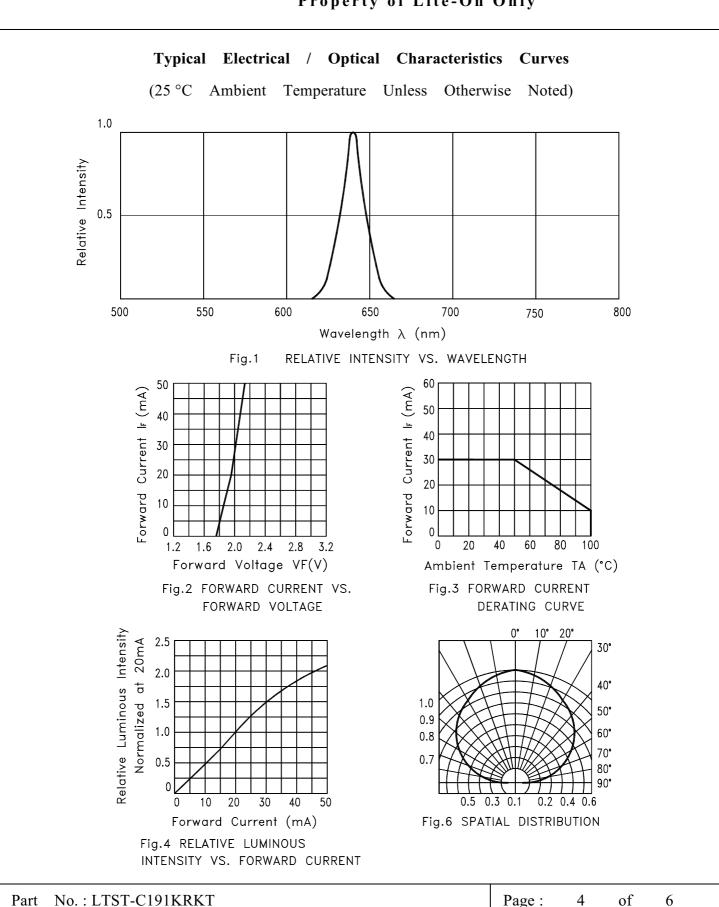
Notes: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

- 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.

Part No.: LTST-C191KRKT Page: 3 of 6

## LITE-ON ELECTRONICS, INC.

Property of Lite-On Only



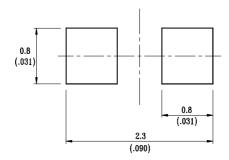


### Property of Lite-On Only

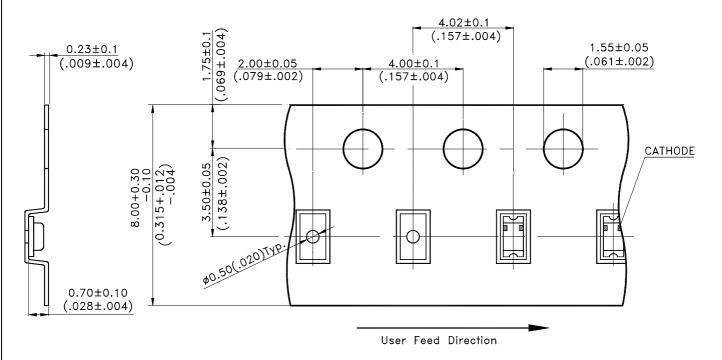
#### Cleaning

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**



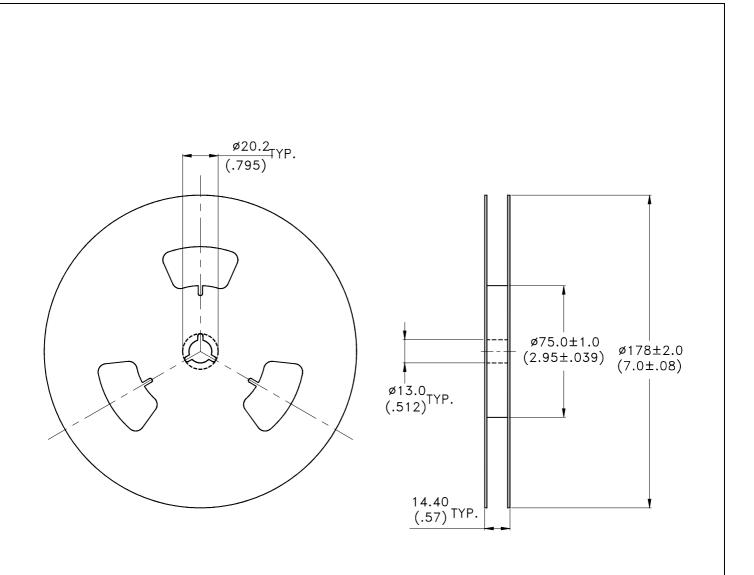
#### Notes:

1. All dimensions are in millimeters (inches).

No.: LTST-C191KRKT 5 of 6 Part Page:



Property of Lite-On Only



#### Notes:

- 1. Empty component pockets sealed with top cover tape.
- 2. 7 inch reel-5000 pieces per reel.
- 3. The maximum number of consecutive missing lamps is two.
- 4. In accordance with ANSI/EIA 481-1-A-1994 specifications.