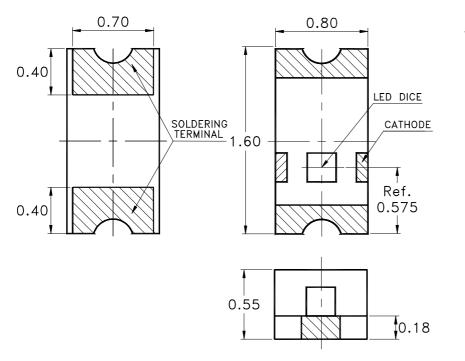


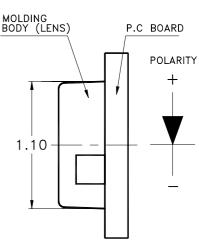
Property of Lite-On Only

Features

- * Super thin (0.55H mm) 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-C191YKT	Water Clear	GaAsP on GaP Yellow

Notes:

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

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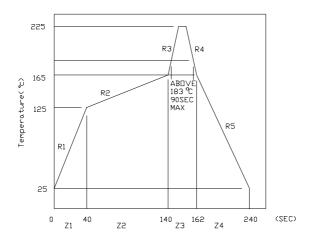


Property of Lite-On Only

Absolute Maximum Ratings At Ta=25°C

Parameter	LTST-C191YKT	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	240°C For 10 Seconds				
Vapor Phase Soldering Condition	215°C For 3 Minutes				

Suggest IR Reflow Condition:



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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	C191YKT	2.0	4.5		mcd	IF = 20mA Note 4	
Viewing Angle	2 0 1/2	C191YKT		130		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λΡ	C191YKT		585		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	C191YKT		588		nm	Note 3	
Spectral Line Half-Width	Δλ	C191YKT		35		nm		
Forward Voltage	VF	C191YKT		2.1	2.6	V	IF = 20mA	
Reverse Current	IR	C191YKT			100	μ A	VR = 5V	
Capacitance	С	C191YKT		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. θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, λ d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25 °C Ambient Temperature Unless Otherwise Noted)

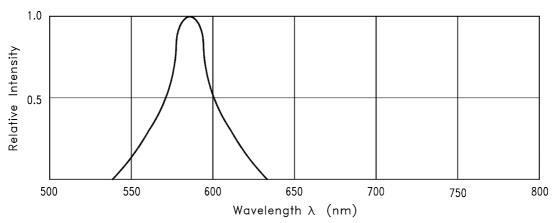


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

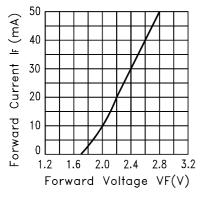


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

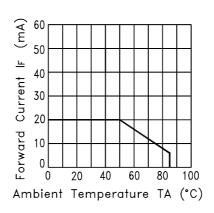


Fig.3 FORWARD CURRENT DERATING CURVE

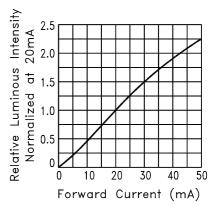


Fig.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

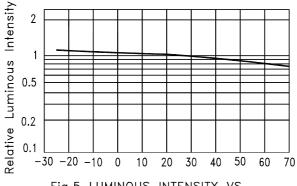


Fig.5 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

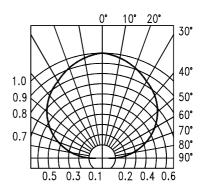


Fig. 6 SPATIAL DISTRIBUTION

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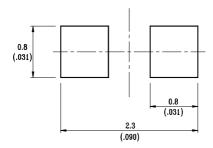
Property of Lite-On Only

Cleaning

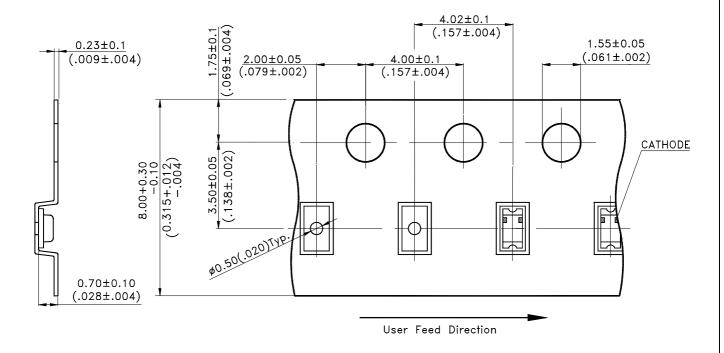
Do not use unspecified chemical liquid to clean LED they could harm the package.

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



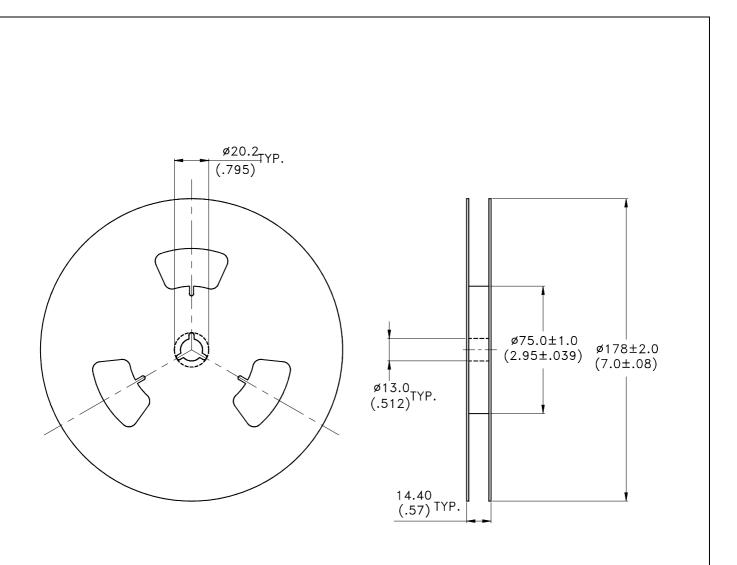
Notes:

1. All dimensions are in millimeters (inches).

Part No.: LTST-C191YKT	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-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.

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