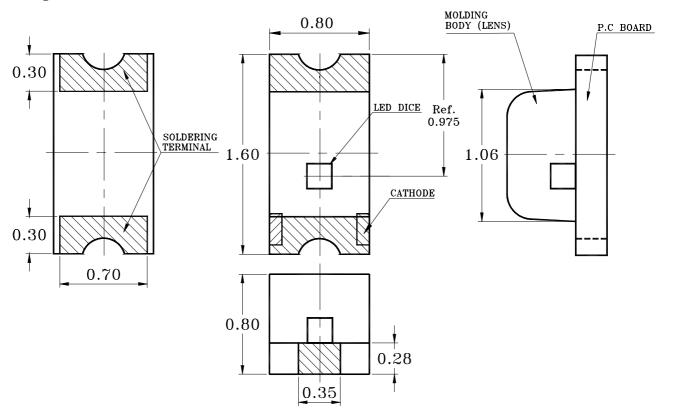


Property of Lite-On Only

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-C190AKT	Water Clear	GaAsP on GaP Amber

Notes:

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

No.: LTST-C190AKT Part Page: 1 of 6

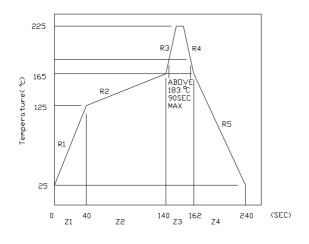


Property of Lite-On Only

Absolute Maximum Ratings At Ta=25°C

Parameter	LTST-C190AKT	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 + 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-C190AKT 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	C190AKT	1.0	6.0	30.0	mcd	IF = 10mA Note 1
Viewing Angle	2 θ 1/2	C190AKT		130		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λΡ	C190AKT		610		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	C190AKT		602		nm	Note 3
Spectral Line Half-Width	Δλ	C190AKT		35		nm	
Forward Voltage	VF	C190AKT		2.1	2.6	V	IF = 20mA
Reverse Current	IR	C190AKT			100	μ A	VR = 5V
Capacitance	С	C190AKT		15		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.

Part No.: LTST-C190AKT Page: 3 of 6

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25 °C Ambient Temperature Unless Otherwise Noted)

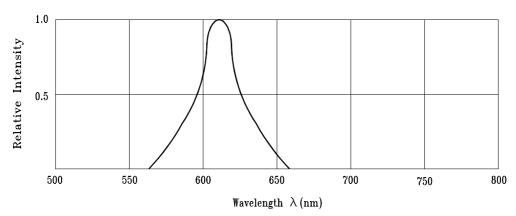
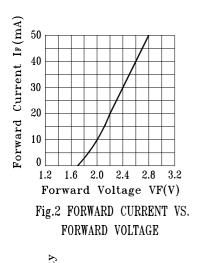
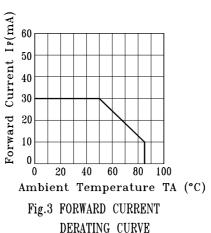
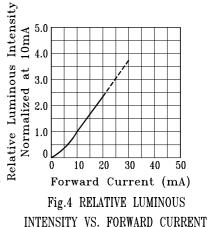
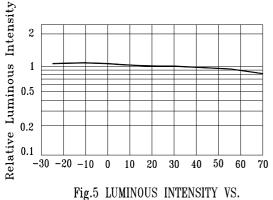


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH









AMBIENT TEMPERATURE.

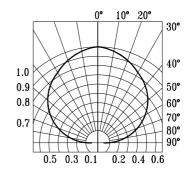


Fig.6 SPATIAL DISTRIBUTION

Part No.: LTST-C190AKT

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of

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6



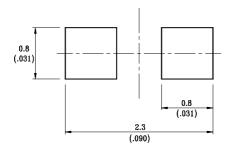
Property of Lite-On Only

Cleaning

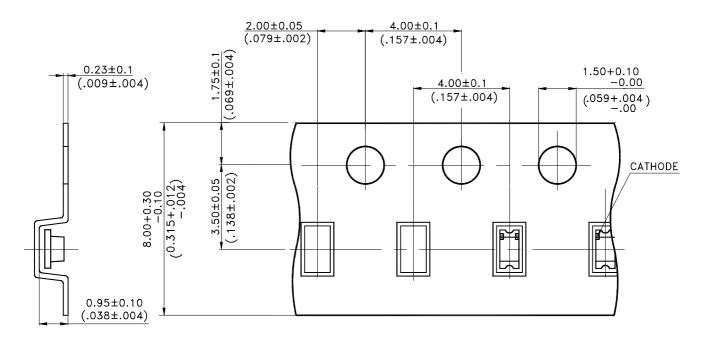
Do not use unspecified chemical liquid to clean LED they could harm the package.

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



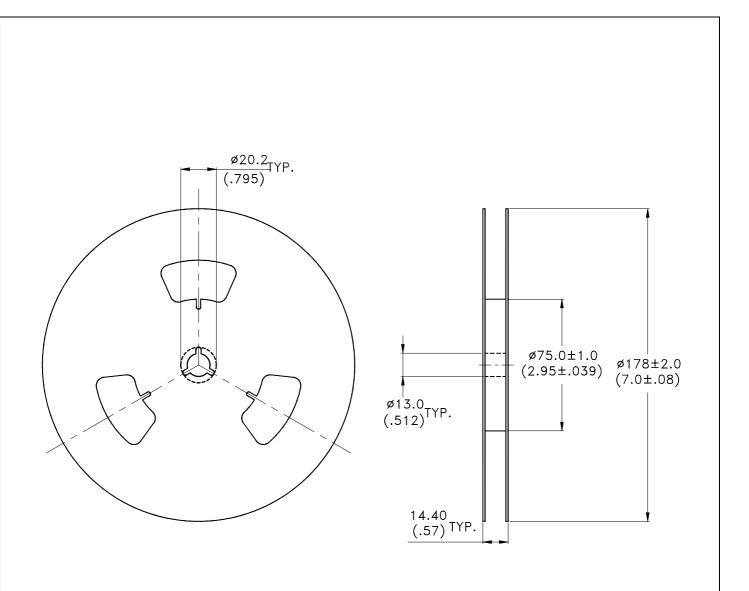
Notes:

1. All dimensions are in millimeters (inches).

Part No.: LTST-C190AKT 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 481-1-A-1994 specifications.

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