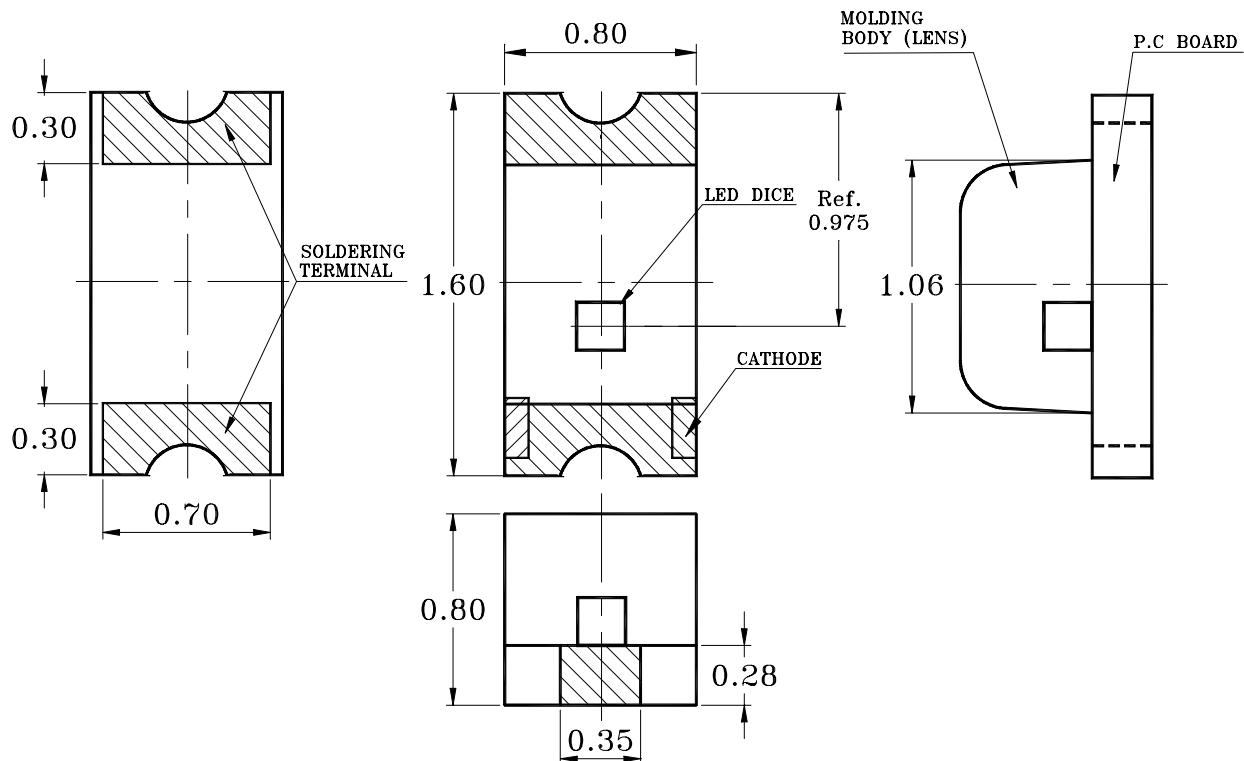


**Property of Lite-On Only****Features**

- \* 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-C190YKT	Water Clear	GaAsP on GaP Yellow

## Notes:

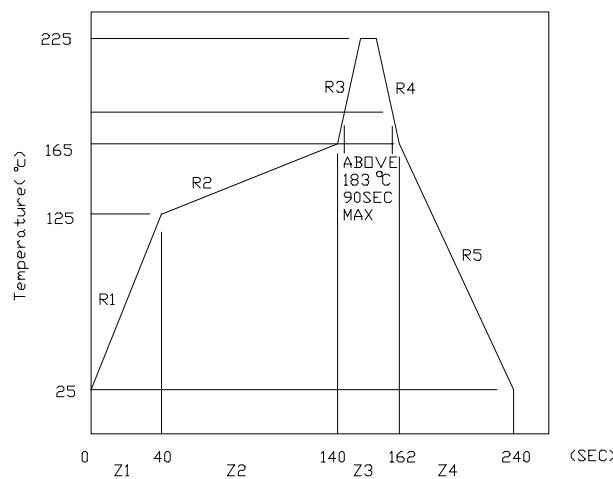
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1\text{mm (.004")}$  unless otherwise noted.

Property of Lite-On Only

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

Parameter	LTST-C190YKT	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 :





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**Electrical Optical Characteristics At Ta=25°C**

Parameter	Symbol	Part no. LTST-	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	IV	C190YKT	1.0	6.0	30.0	mcd	IF = 10mA Note 1
Viewing Angle	$2\theta_{1/2}$	C190YKT		130		deg	Note 2 (Fig.6)
Peak Emission Wavelength	$\lambda_P$	C190YKT		585		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	$\lambda_d$	C190YKT		588		nm	Note 3
Spectral Line Half-Width	$\Delta\lambda$	C190YKT		35		nm	
Forward Voltage	VF	C190YKT		2.1	2.6	V	IF = 20mA
Reverse Current	IR	C190YKT			100	$\mu A$	VR = 5V
Capacitance	C	C190YKT		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.

Property of Lite-On Only

### Typical Electrical / Optical Characteristics Curves

( 25 °C Ambient Temperature Unless Otherwise Noted )

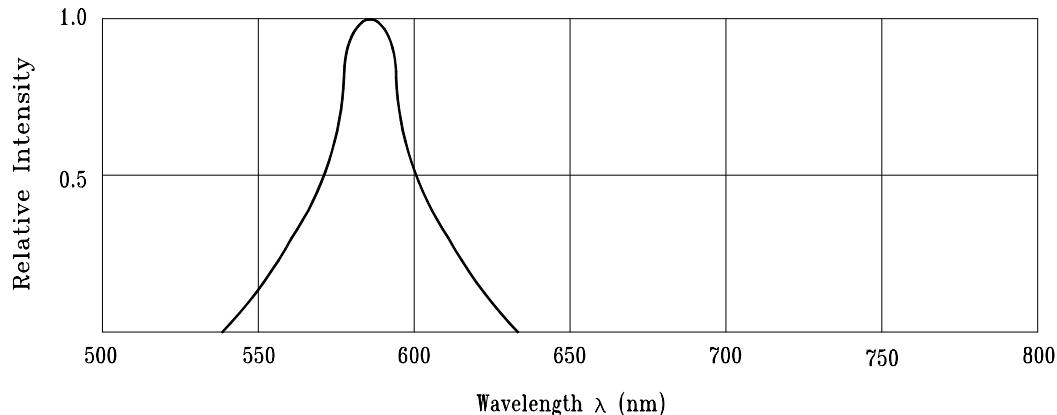


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

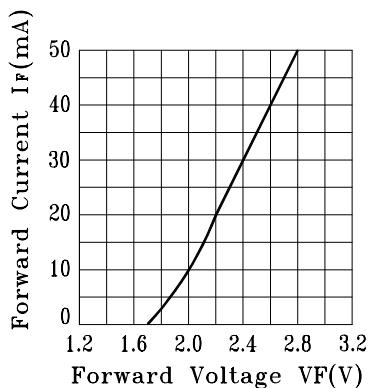


Fig.2 FORWARD CURRENT VS.  
FORWARD VOLTAGE

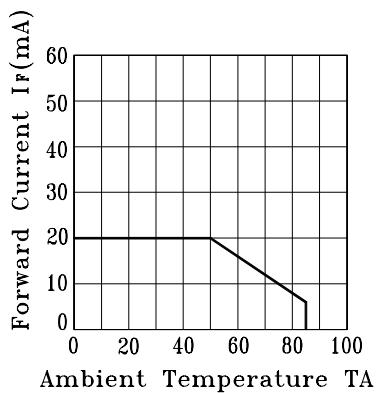


Fig.3 FORWARD CURRENT  
DERATING CURVE

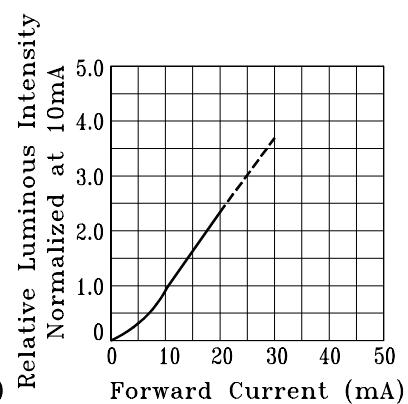


Fig.4 RELATIVE LUMINOUS  
INTENSITY VS. FORWARD CURRENT

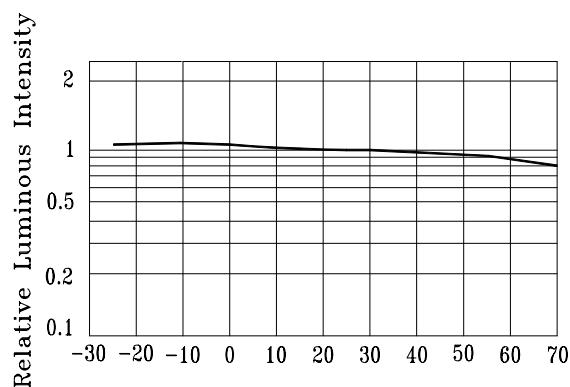


Fig.5 LUMINOUS INTENSITY VS.  
AMBIENT TEMPERATURE.

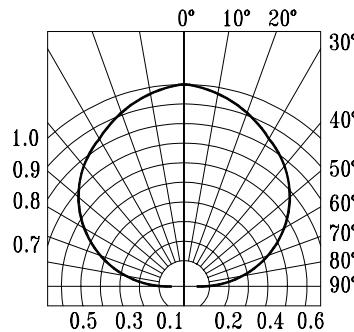
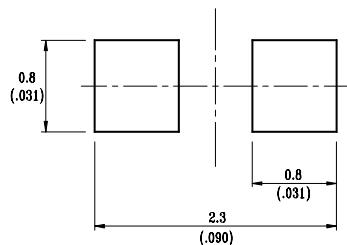
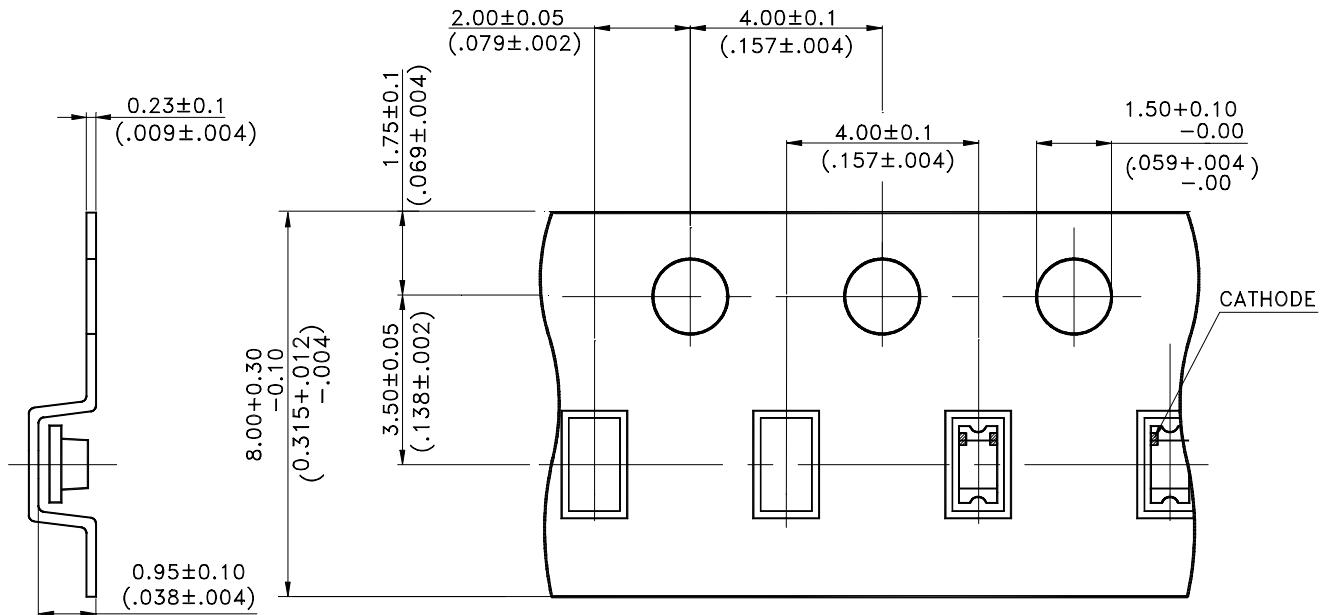


Fig.6 SPATIAL DISTRIBUTION

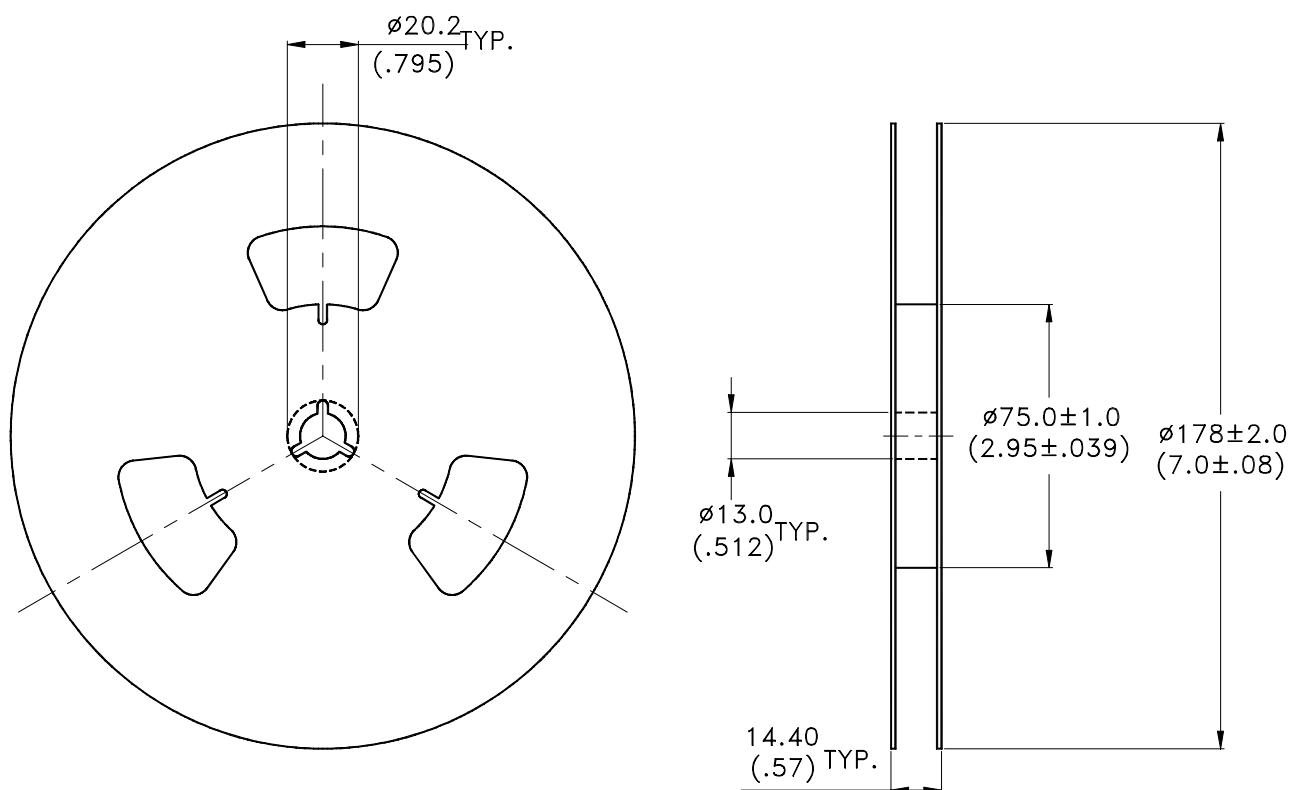
**Property of Lite-On Only****Cleaning**

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).

**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.

# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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