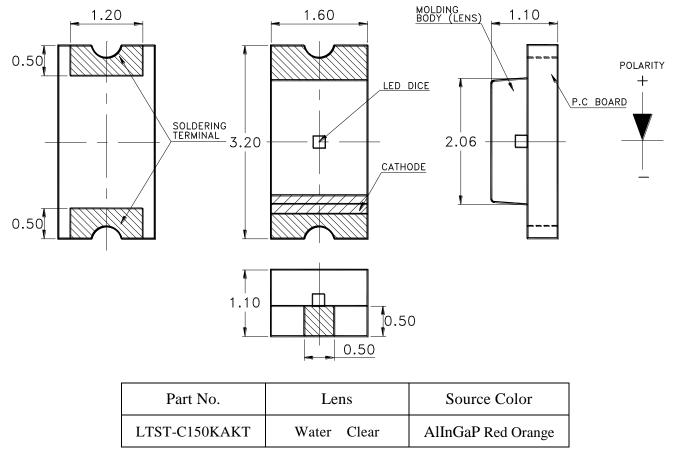
## Property of Lite-On Only

## **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**



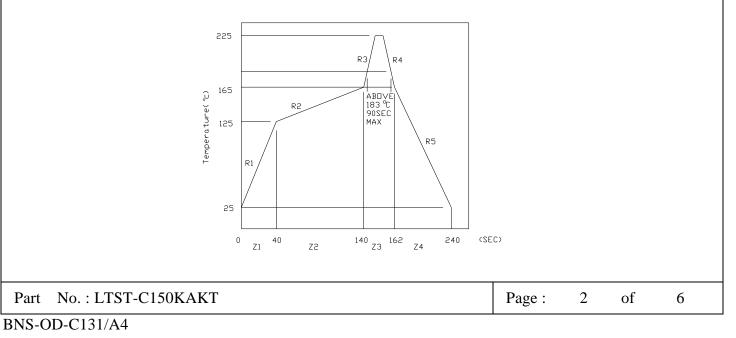
## Notes:

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

# Property of Lite-On Only

Absolute Maximum Ratings At	Ta = 25°C				
Parameter	LTST-C150KAKT	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	$-55^{\circ}$ C to $+85^{\circ}$ C				
Storage Temperature Range	$-55^{\circ}$ C to $+85^{\circ}$ 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 :



## 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	C150KAKT	30.0	55.0		mcd	IF = 20mA Note 1		
Viewing Angle	2 <del>0</del> 1/2	C150KAKT		130		deg	Note 2 (Fig.6)		
Peak Emission Wavelength	λΡ	C150KAKT		621		nm	Measurement @Peak (Fig.1)		
Dominant Wavelength	λd	C150KAKT		615		nm	Note 3		
Spectral Line Half-Width	Δλ	C150KAKT		18		nm			
Forward Voltage	VF	C150KAKT		2.0	2.4	V	IF = 20mA		
Reverse Current	IR	C150KAKT			100	$\mu$ A	VR = 5V		
Capacitance	С	C150KAKT		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.

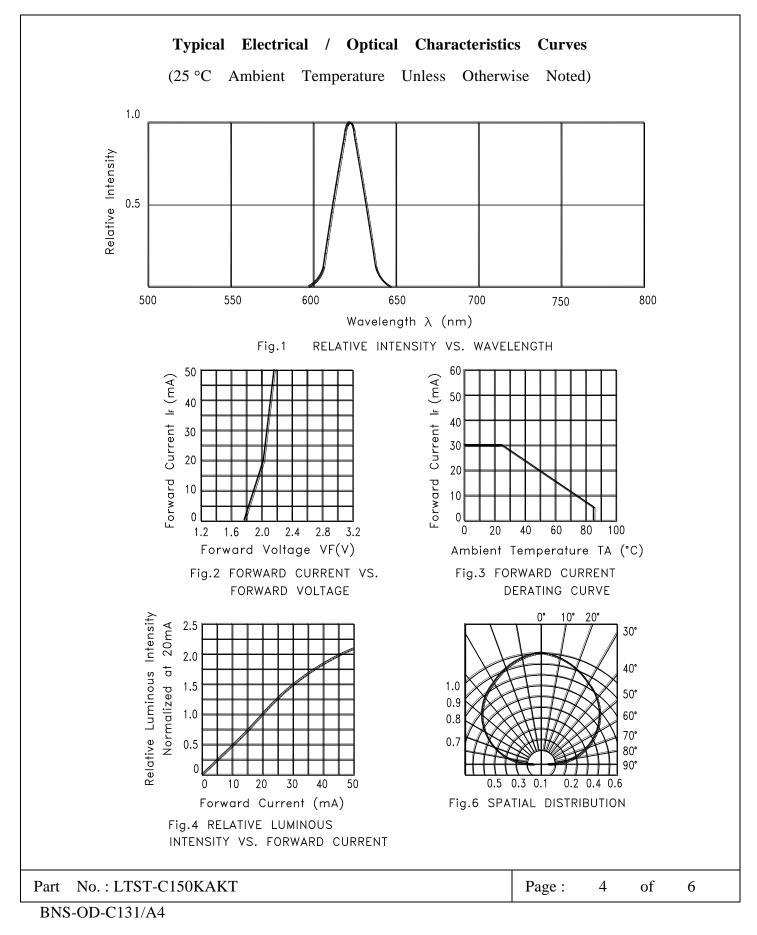
## No.: LTST-C150KAKT Part

3 Page : of

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Property of Lite-On Only

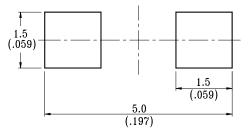


## Property of Lite-On Only

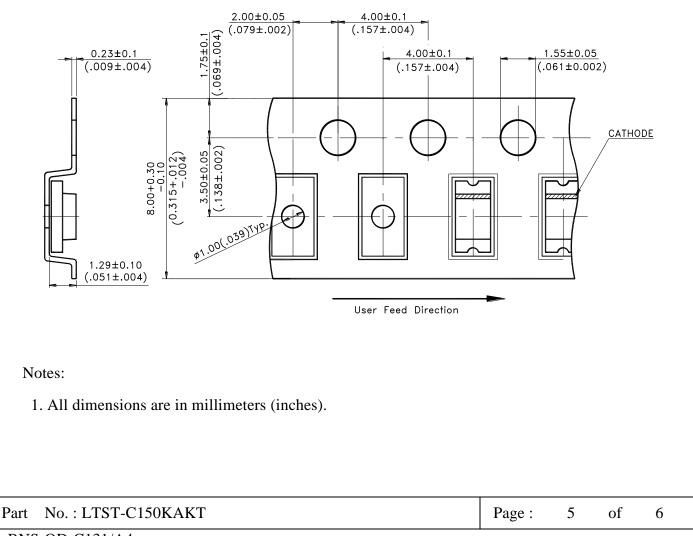
## Cleaning

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**



Property of Lite-On Only

