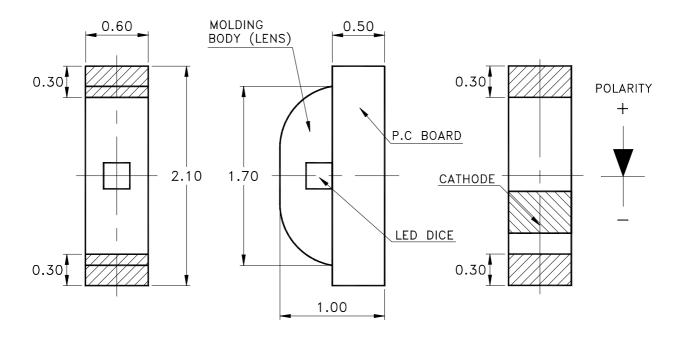


Property of Lite-On Only

Features

- * Side looking special for LCD backlight.
- * Package in 8mm tape on 7" diameter reels.
- * Compatible with automatic placement equipment.
- * Compatible with infrared and vapor phase reflow and wave solder process.
- * EIA STD package.
- * I.C. compatible.

Package Dimensions



Part No.	Lens	Source Color
LTST-S220YKT	Water Clear	GaAsP on GaP Yellow

Notes:

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

Part No.: LTST-S220YKT Page: 1 of 6

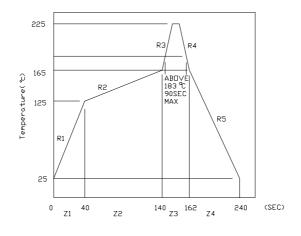


Property of Lite-On Only

Absolute Maximum Ratings At Ta=25℃

Parameter	LTST-S220YKT	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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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	S220YKT	1.6	4.0		mcd	IF = 20mA Note 1	
Viewing Angle	2 θ 1/2	S220YKT		130		deg	Note 2 (Fig.6)	
Peak Emission Wavelength	λΡ	S220YKT		585		nm	Measurement @Peak (Fig.1)	
Dominant Wavelength	λd	S220YKT		588		nm	Note 3	
Spectral Line Half-Width	Δλ	S220YKT		35		nm		
Forward Voltage	VF	S220YKT		2.1	2.6	V	IF = 20mA	
Reverse Current	IR	S220YKT			100	μΑ	VR = 5V	
Capacitance	С	S220YKT		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.

Part No.: LTST-S220YKT Page: 3 of 6

LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Typical Electrical / Optical Characteristics Curves

(25 °C Ambient Temperature Unless Otherwise Noted)

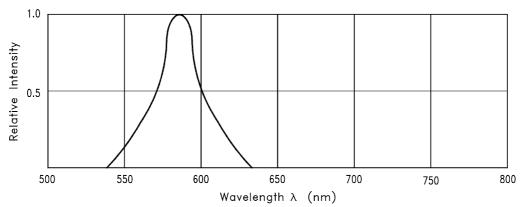


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

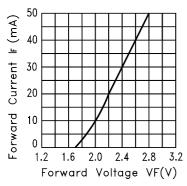


Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE

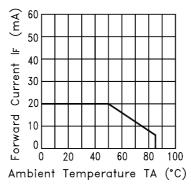


Fig.3 FORWARD CURRENT DERATING CURVE

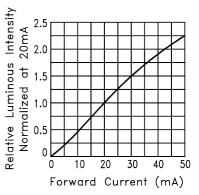
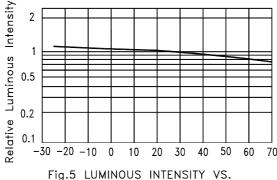


Fig.4 RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE

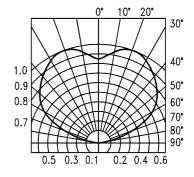


Fig. 6 SPATIAL DISTRIBUTION

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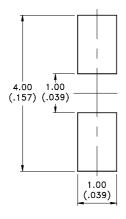


Property of Lite-On Only

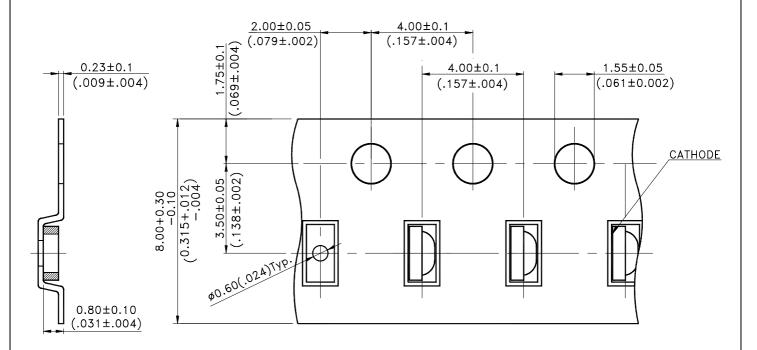
Cleaning

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



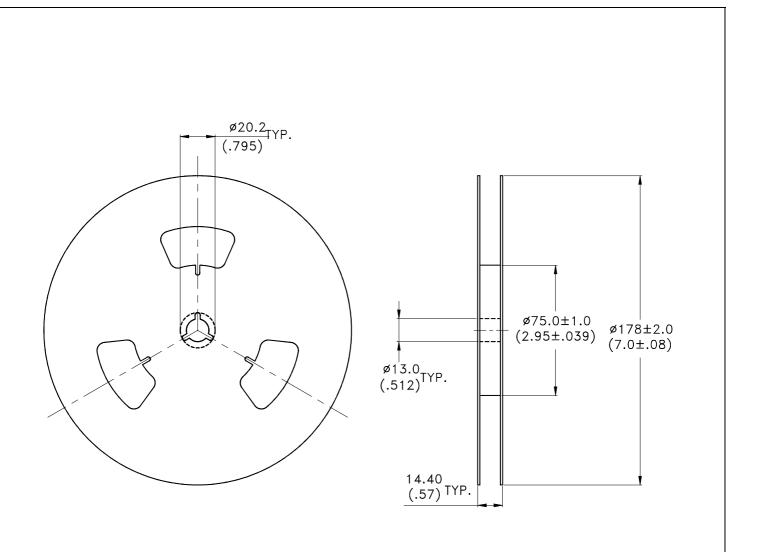
Notes:

1. All dimensions are in millimeters (inches).

Part No.: LTST-S220YKT	Page:	5	of	6	



Property of Lite-On Only



Notes:

- 1. Empty component pockets sealed with top cover tape.
- 2. 7 inch reel-4000 pieces per reel.
- 3. The maximum number of consecutive missing lamps is two.
- 4. In accordance with ANSI/EIA 481-1-A-1994 specifications.

No.: LTST-S220YKT Page: 6 of Part 6