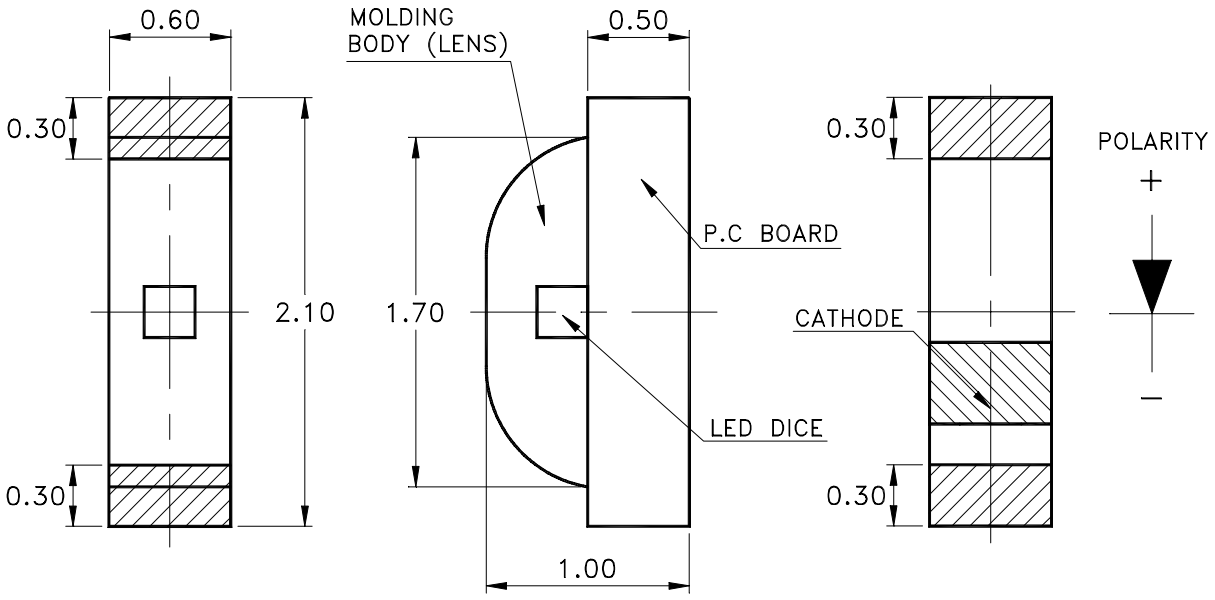
**Features**

* 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 solder process.
* EIA STD package.
* I.C. compatible.

**Package Dimensions**




| Part no. | Lens | Source Color |
|---|---|---|
| LTST-S220TBKT | Water Clear | GaN Blue |

Notes:

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

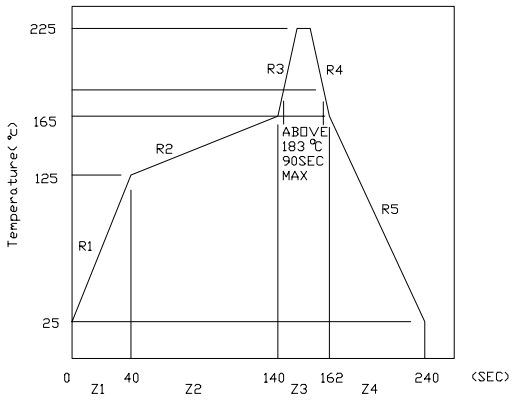
**Absolute Maximum Ratings At Ta=25℃**

| Parameter | LTST-S220TBKT | Unit |
|---|---|---|
| Power Dissipation | 120 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | mA |
| Continuous Forward Current | 20 | mA |
| Derating Linear From 25℃ | 0.25 | mA/℃ |
| Reverse Voltage | 5 | V |
| Electrostatic Discharge Threshold(HBM)Note A | 300 | V |
| Operating Temperature Range | -20°C to + 80°C | |
| Storage Temperature Range | -30°C to + 100°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 | |

Note A :

HBM : Human Body Model. Seller gives no other assurances regarding the ability of to withstand ESD.

Suggest IR Reflow Condition :



**Electrical Optical Characteristics At Ta=25℃**

| Parameter | Symbol | Part No. LTST- | Min. | Typ. | Max. | Unit | Test Condition |
|---|---|---|---|---|---|---|---|
| Luminous Intensity | IV | S220TBKT | 18.0 | 30.0 | | mcd | IF = 20mA Note 1 |
| Viewing Angle | 2θ 1/2 | S220TBKT | | 130 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | λ Peak | S220TBKT | | 468 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λ d | BIN AC<br>BIN AD | 465<br>470 | | 470<br>475 | nm | Note 3<br>IF = 20mA |
| Spectral Line Half-Width | Δ λ | S220TBKT | | 25 | | nm | |
| Forward Voltage | VF | S220TBKT | | 3.4 | 3.8 | V | IF = 20mA |
| Reverse Current | IR | S220TBKT | | | 100 | μA | VR = 5V |

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.

4. Caution in ESD:
Static Electricity and surge damages the LED. It is recommend to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

## Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

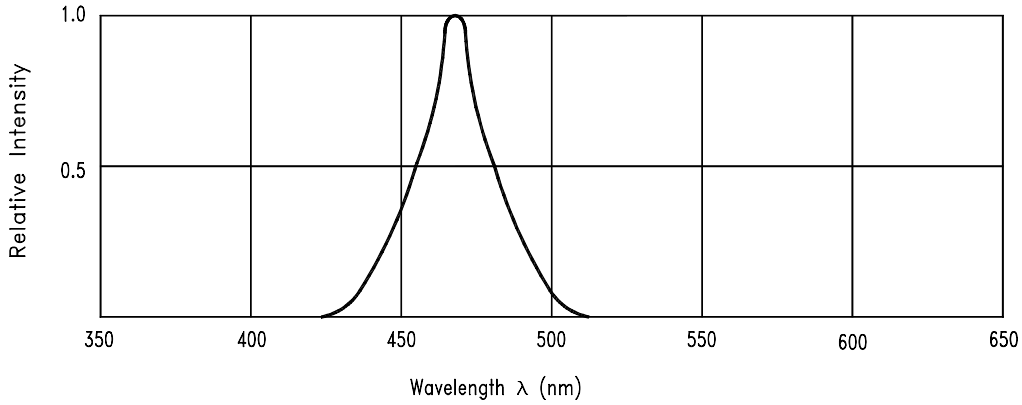



Fig.1 Relative Intensity vs. Wavelength

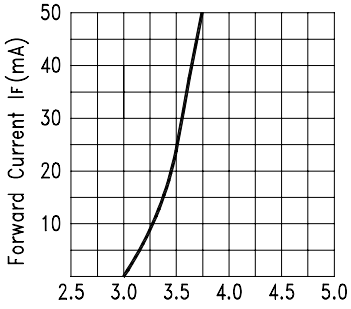



Fig.2 Forward Current vs. Forward Voltage

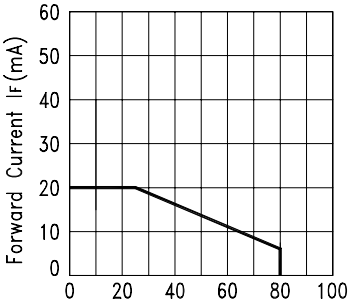



Fig.3 Forward Current Derating Curve

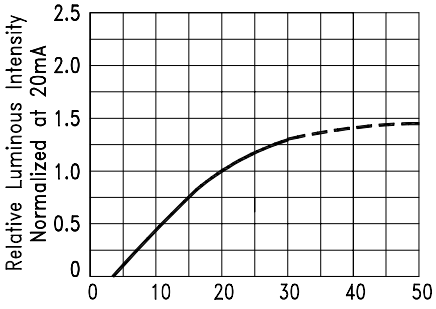



Fig.4 Relative Luminous Intensity vs. Forward Current

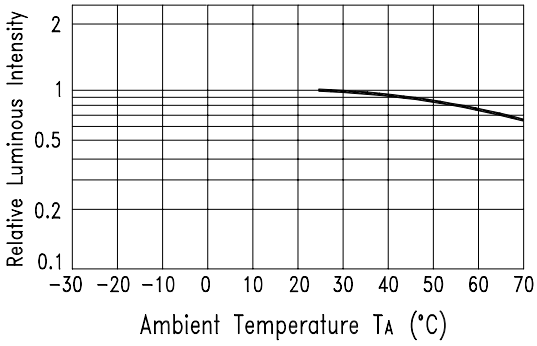



Fig.5 Luminous Intensity vs. Ambient Temperature

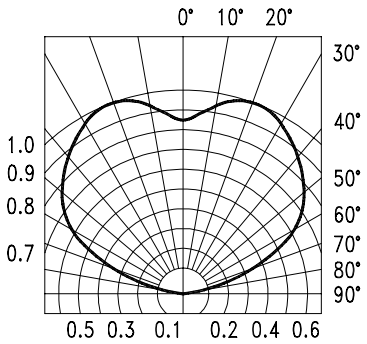
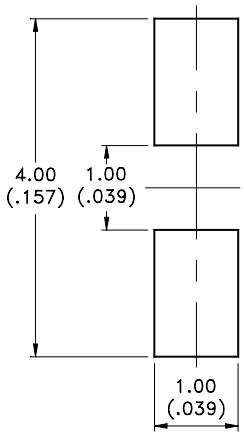



Fig.6 Spatial Distribution

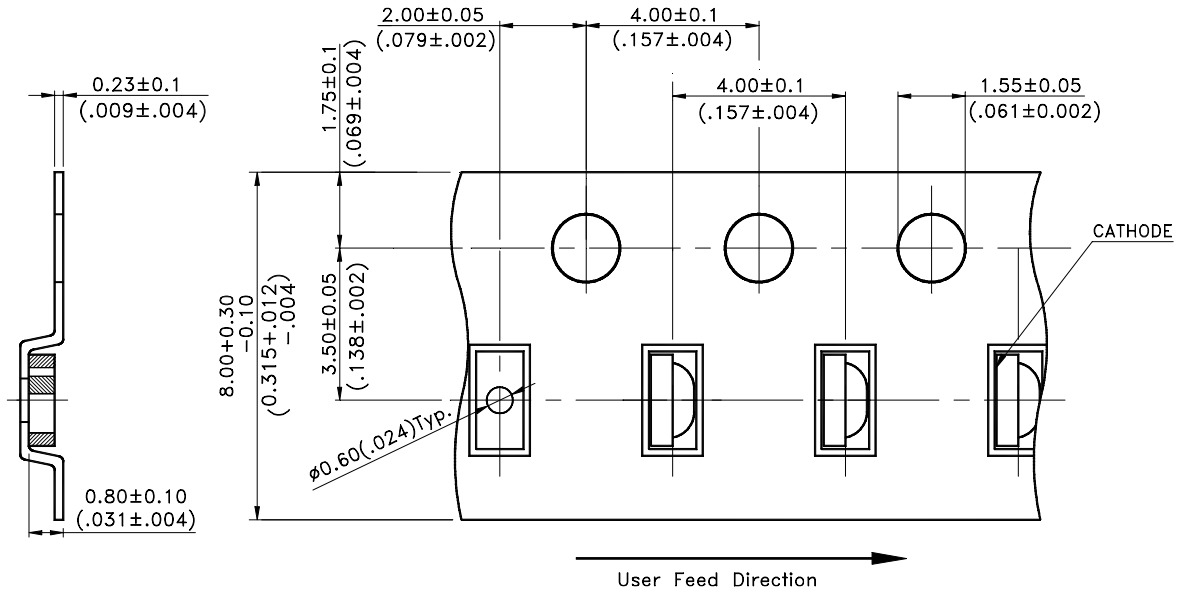
**Cleaning**

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**

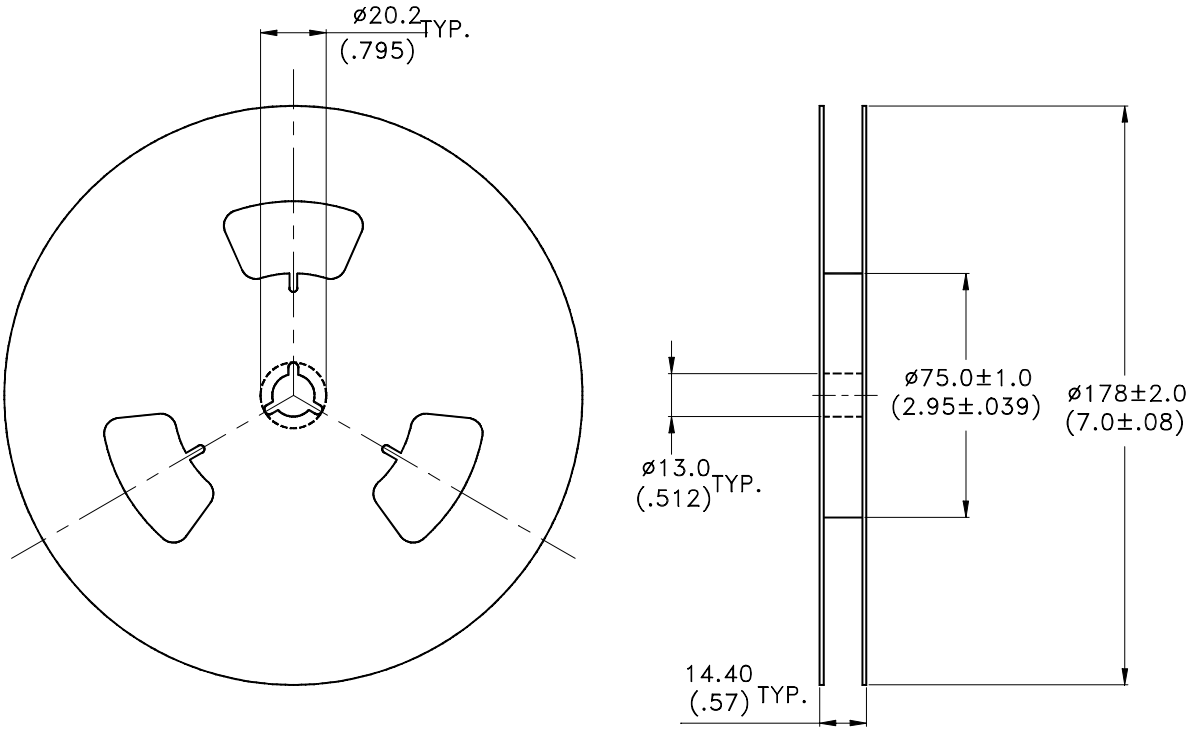



**Package Dimensions Of Tape And Reel**




Notes:

1. All dimensions are in millimeters (inches).




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.

# Mouser Electronics

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Lite-On:
LTST-S220TBKT

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