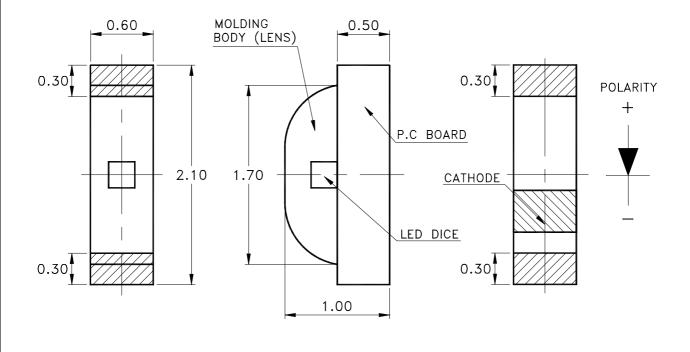
Property of LITE-ON Only

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-S2 | 220YKT |
|--------------------|--------|
|--------------------|--------|

Page : 1 of

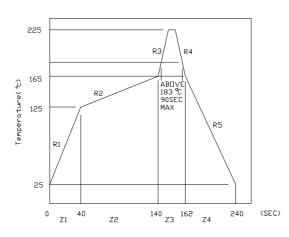


Property of LITE-ON Only

Absolute Maximum Ratings At Ta=25°C

| 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 $+85^{\circ}$ C | | | |
| Storage Temperature Range | -55° 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 :



No.: LTST-S220YKT Part

BNS-OD-C131/A4



Property of LITE-ON Only

| Electrical Optical Char | acteristics | At Ta=25° | С | | | | |
|--------------------------|----------------|-------------------|------|------|------|---------|------------------------------|
| 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 <i>θ</i> 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 | μ A | VR = 5V |
| Capacitance | С | S220YKT | | 30 | | PF | VF = 0 f = 1MHZ |

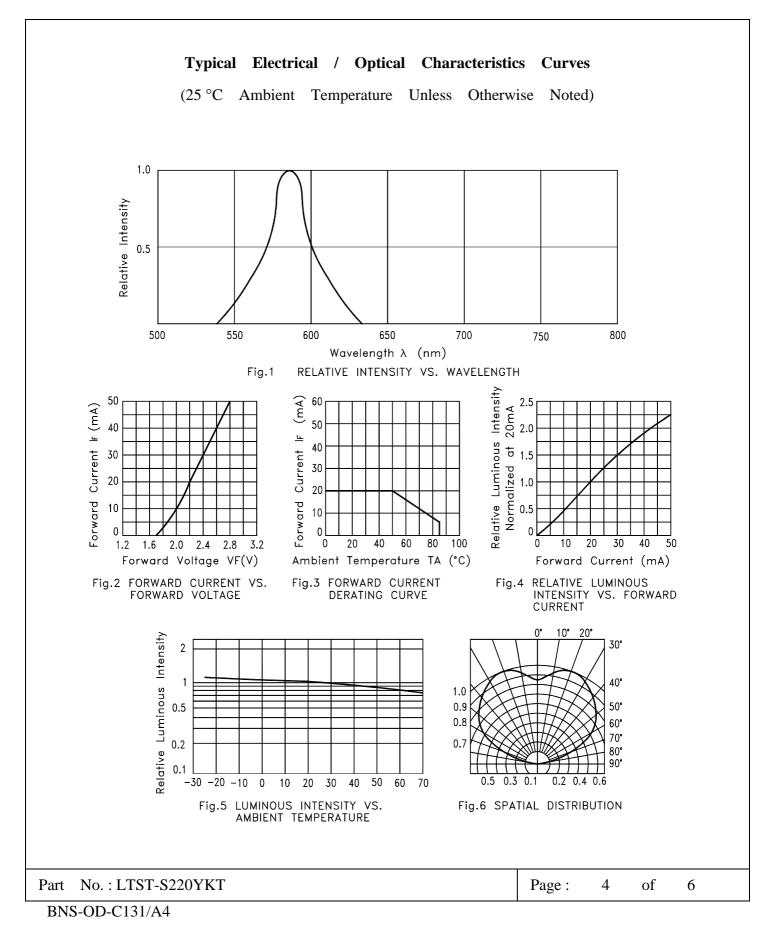
Notes: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

- 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.

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Property of LITE-ON Only

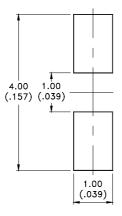


Property of LITE-ON Only

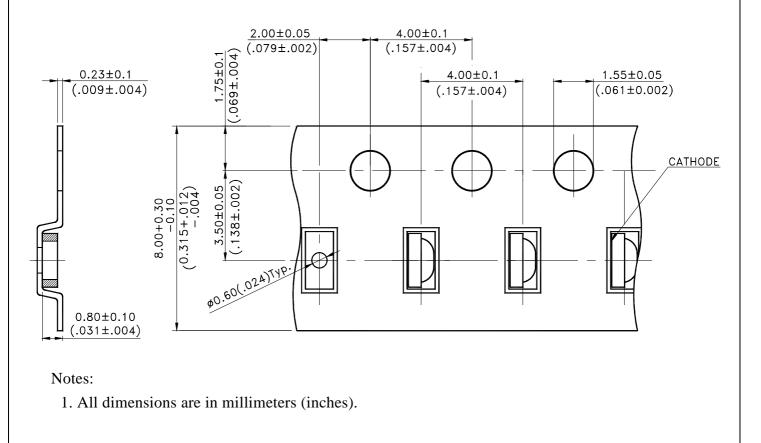
Cleaning

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



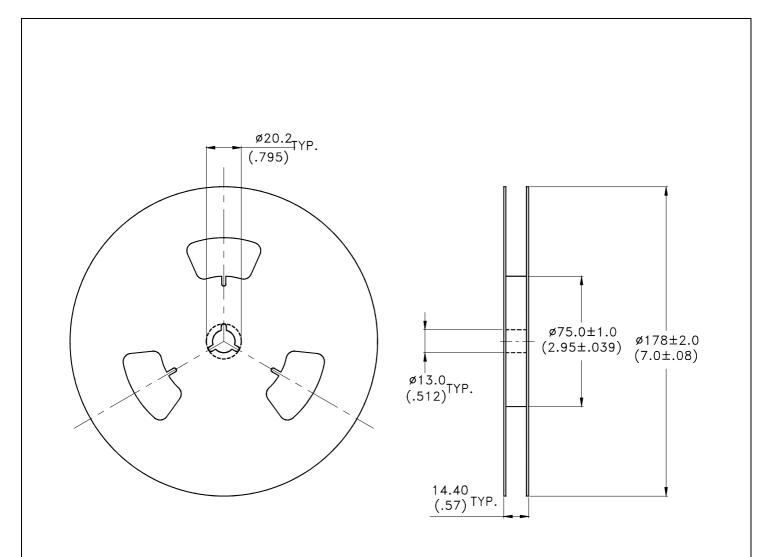
Package Dimensions Of Tape And Reel



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

BNS-OD-C131/A4

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.