

## DATA SHEET

SPEC. NO. : SZ18051006  
DATE : 2018/05/10  
REV. : A/0

Approved By:

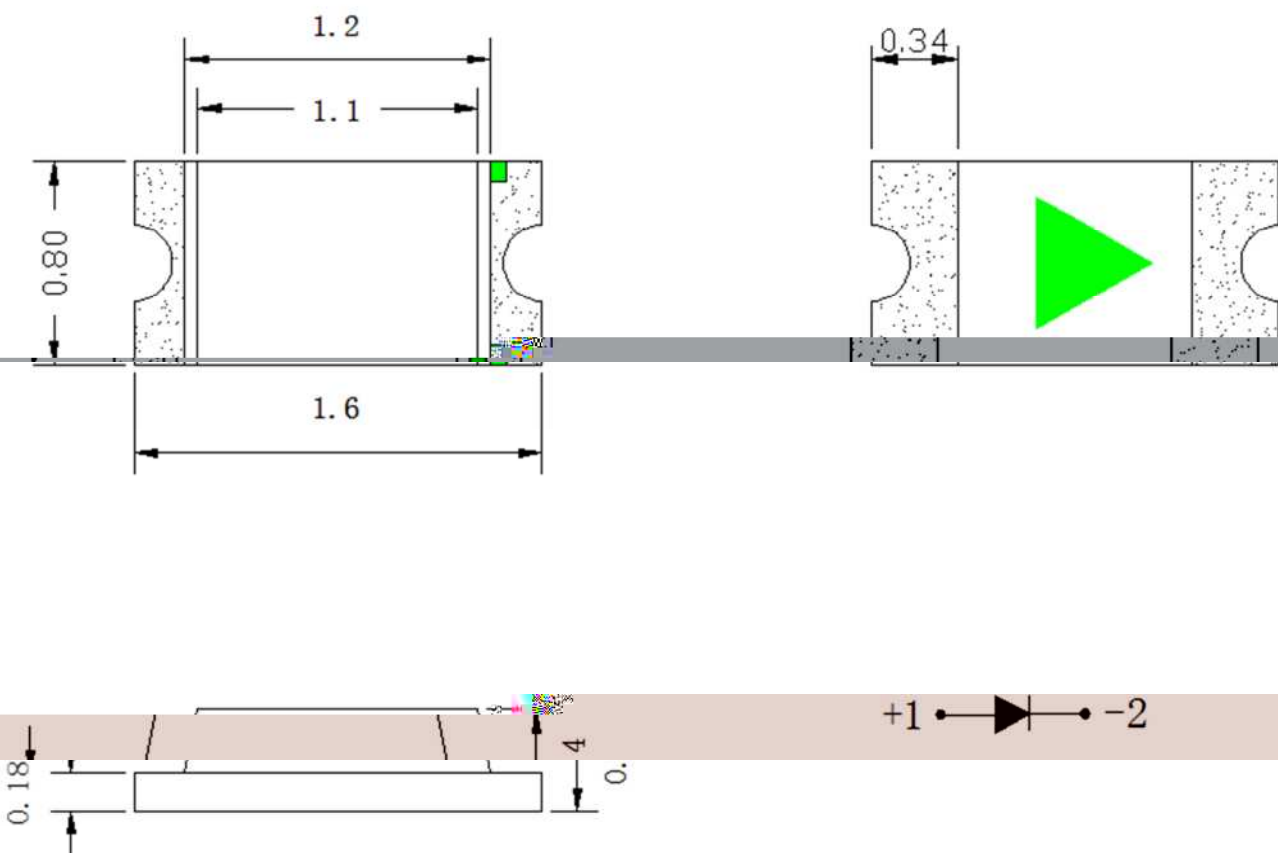
Checked By:

Prepared By:

## Features

- ◆ Pb free product—RoHS compliant
- ◆ Low power consumption, High efficiency
- ◆ Reliable and rugged
- ◆ Long life – solid state reliability
- ◆ Viewing Angle: 120°

## Package Dimension



| Part NO.           | Lens Color  | Source Color |
|--------------------|-------------|--------------|
| SL-T0603GEC005-L40 | Water Clear | Green        |

### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.10\text{mm}$  unless otherwise noted
3. Specifications are subject to change without notice.



| Parameter                | Symbol           | Min. | Typ. | Max. | Unit | Test Condition               |
|--------------------------|------------------|------|------|------|------|------------------------------|
| Luminous Intensity       | IV               | 200  | ---  | 400  | mcd  | I <sub>F</sub> =5mA (Note 1) |
| Viewing Angle            | 2 <sub>1/2</sub> | ---  | 120  | ---  | Deg. | (Note 2)                     |
| Dominant Wavelength      | d                | 520  | ---  | 530  | nm   | I <sub>F</sub> =5mA          |
| Peak Emission Wavelength | p                | ---  | 515  | ---  | nm   | I <sub>F</sub> =5mA          |
| Spectral Line Half-Width |                  | ---  | 30   | ---  | nm   | ---                          |
| Forward Voltage          | V <sub>F</sub>   | 2.4  | ---  | 3.2  | V    | I <sub>F</sub> =5mA (Note 4) |
| Reverse Current          | I <sub>R</sub>   | ---  | ---  | 10   | μA   | V <sub>R</sub> =5V           |

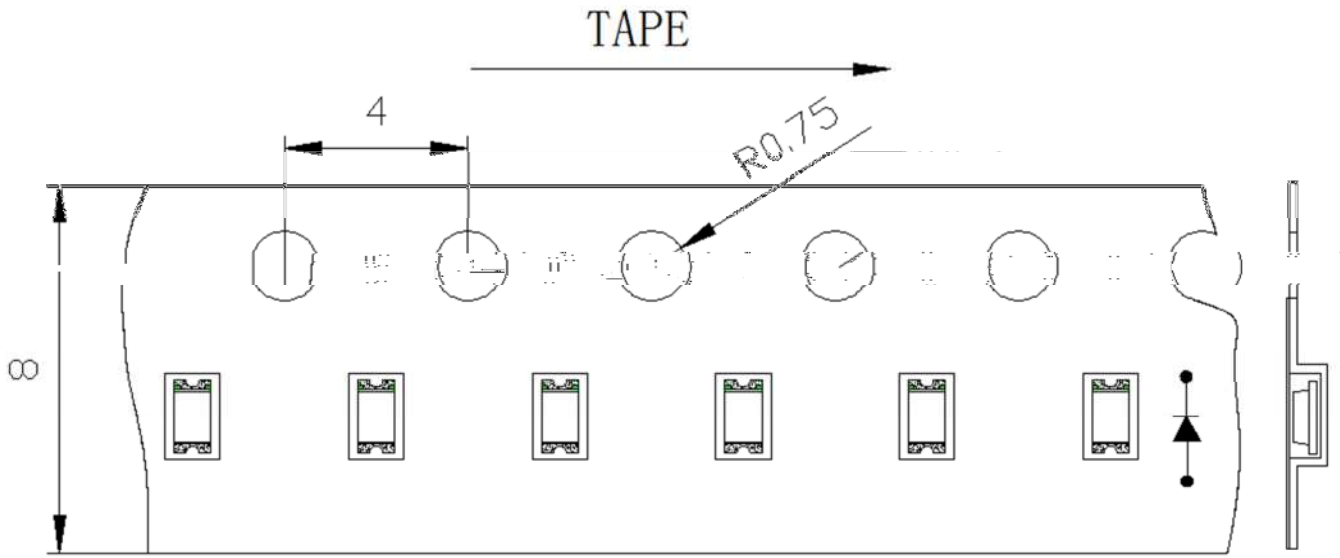
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of Luminous Intensity: ±15%.
2. <sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device. Tolerance of Dominant Wavelength: ±1.0nm.
4. Tolerance of Forward Voltage: ±0.1V.



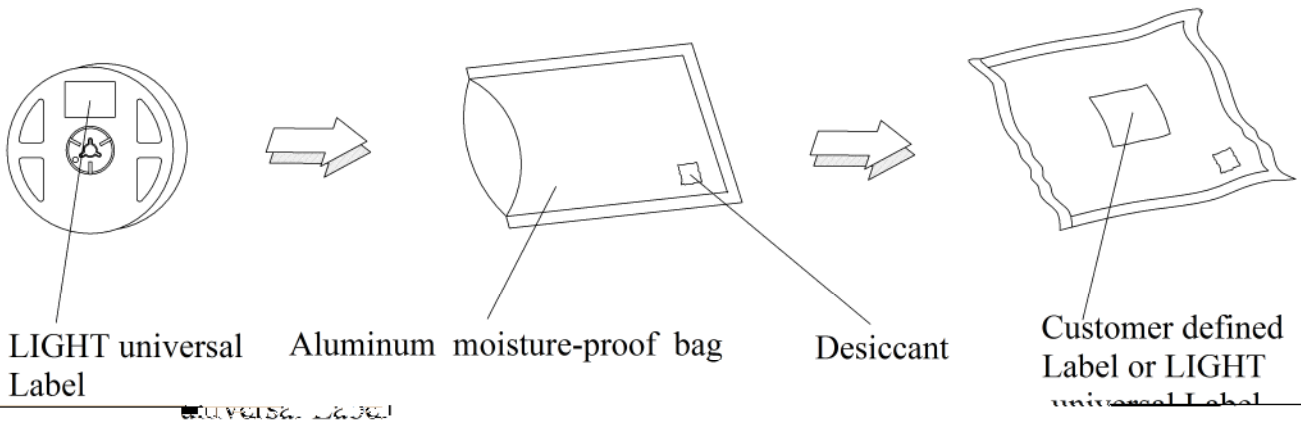
9.

Tolerance unless mentioned is  $\pm 0.2\text{mm}$ ; Unit = mm

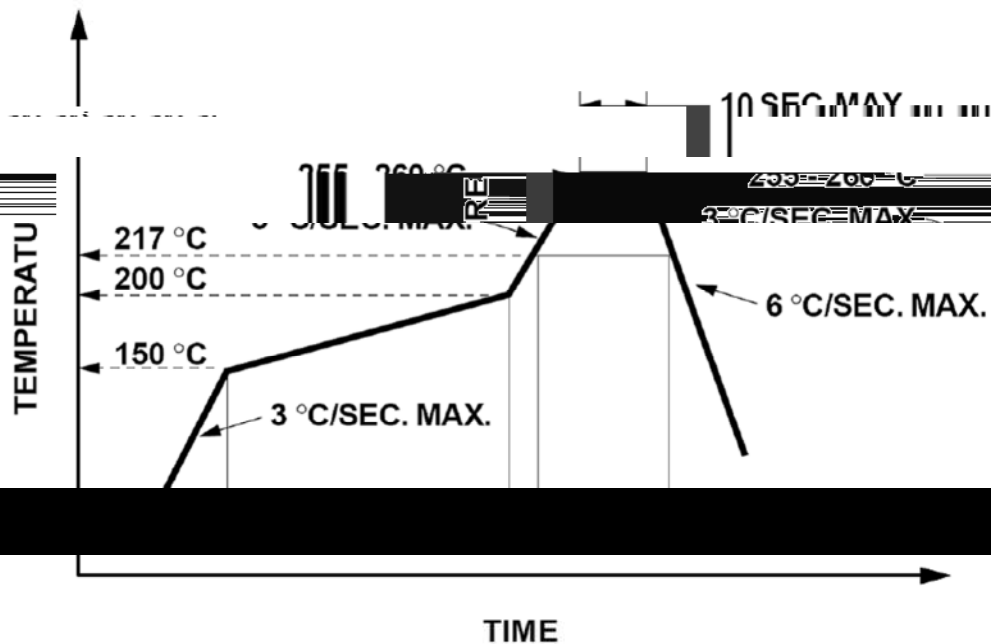
**Carrier Tape Specifications (Loaded Quantity: 4000pcs/reel)**



**Moisture Resistant Packaging**



## Suggest IR Reflow Condition For Lead Free



1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.

## Soldering iron

1. When hand soldering, the temperature of the iron must less than 300°C for 3 seconds.
2. The hand solder should be done only once.

## Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of LEDs will or will not be damaged by repairing.

