

LG-T2727RGBA-TD-A

SPEC.NO. : SZ19081205
DATE : 2020/05/07
REV. : A/1

Approved By:

Checked By:

Prepared By:

LIGHT

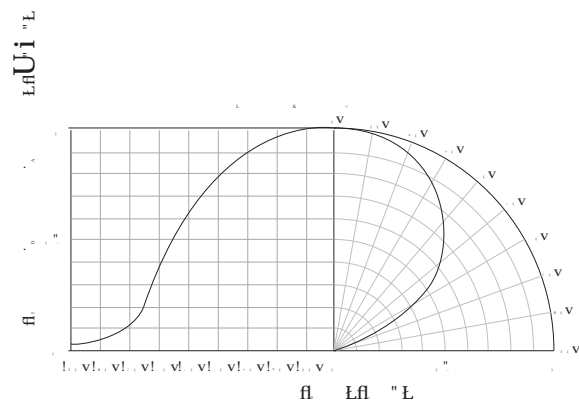
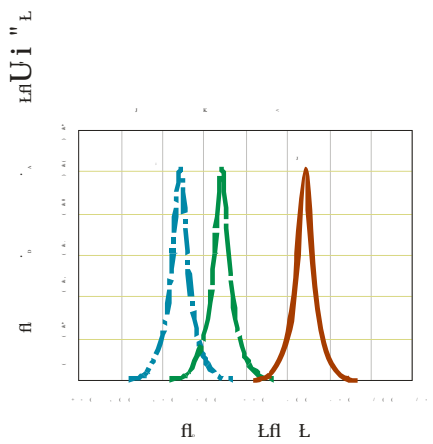
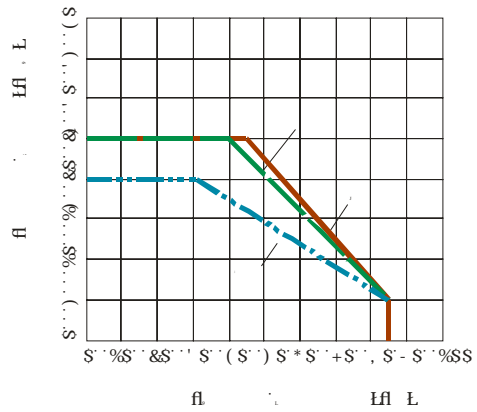
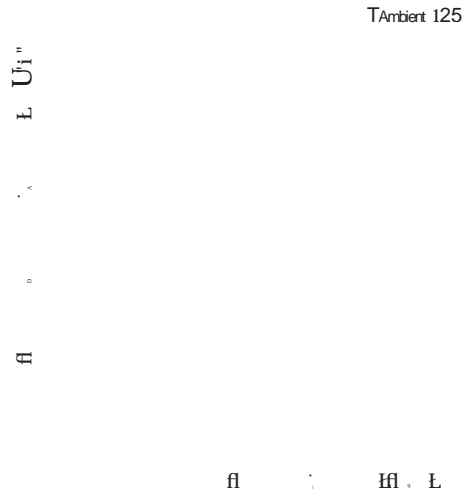
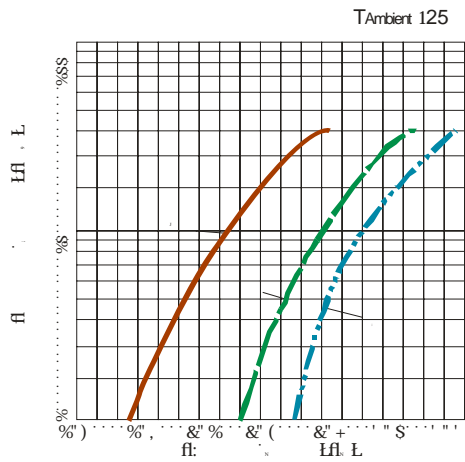


LG-T2727RGBA-TD-A

TOP Full-color LED

LIGHT

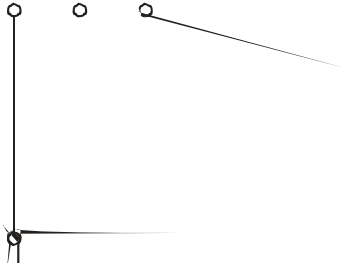
Typical Characteristics Curves



1

Packaging (1)

◇ Carrier Tape



◇ Details Of Carrier Tape



◇ Reel Dimension



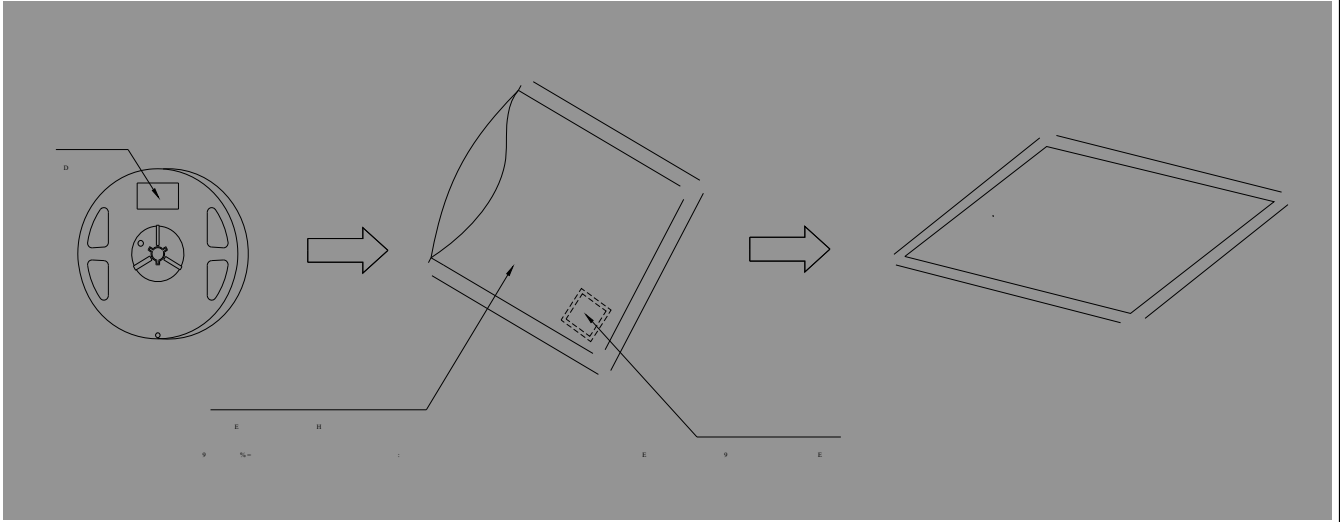
D

2

Packaging(2)



· Moisture Proof and Anti-Electrostatic Foil Bag



· Cardboard Box



· Label Explanation

1

Guideline for Soldering (1)

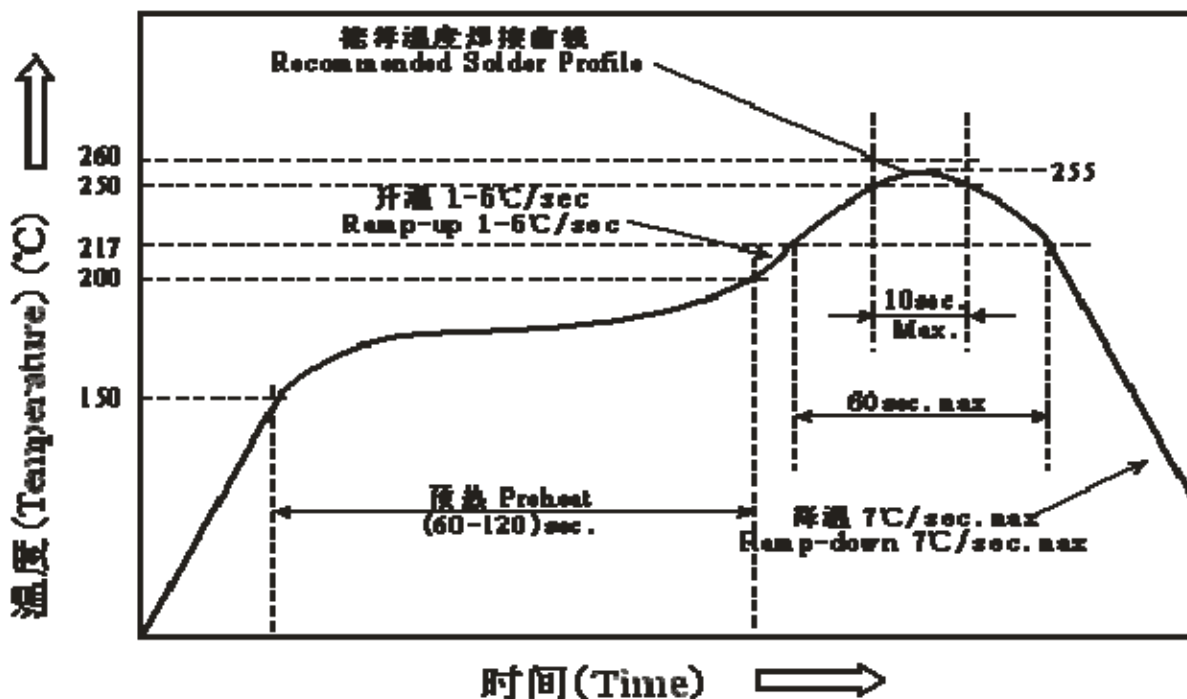
1.

Hand Soldering

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Reflow Soldering:



2

Guideline for Soldering (2)

x ·

x · j

&

x ·

D - <

x · k

D - <

&

(1)

Precautions (1)

1.

Storage

- E %
&
&
- 4 + (4 . (J
K 2 9 4 + (K E L &
- 4 . (J
- A H
- 4 + (4 . (J) *
4 + (4 . (J & M
K E < D - <) * &
- / (- y) *
/ (- y *
/ (- y . 0
0 * 2 / (-) *
9 * 2 / (- *
< 2 / (- . 0

2.

Static Electricity

- K D - < & < D - < D - < & A
D - < & A
% K E < D - < &
- 9 &
- A %
D - < &

(2)

Precautions (2)

3.

Design Consideration

- When the LED is connected to the power supply, the current flowing through the LED is limited by the resistor. The resistor value is determined by the power supply voltage, the LED forward voltage, and the desired LED current.

The resistor value is calculated as follows:

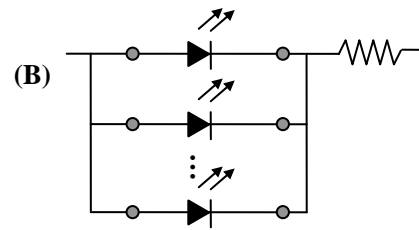
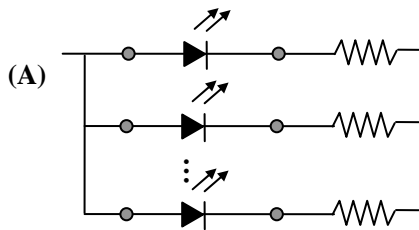
$$R = \frac{V_{PS} - V_{LED}}{I_{LED}}$$

where V_{PS} is the power supply voltage, V_{LED} is the LED forward voltage, and I_{LED} is the LED current.
- The resistor value should be chosen such that the LED current is within the specified range. The resistor value should also be chosen such that the power dissipation in the resistor is within the specified range.

The power dissipation in the resistor is calculated as follows:

$$P = I_{LED}^2 R$$

where P is the power dissipation, I_{LED} is the LED current, and R is the resistor value.



- The resistor value should be chosen such that the LED current is within the specified range. The resistor value should also be chosen such that the power dissipation in the resistor is within the specified range.

The power dissipation in the resistor is calculated as follows:

$$P = I_{LED}^2 R$$

where P is the power dissipation, I_{LED} is the LED current, and R is the resistor value.

4.

Reverse voltage protection

- When the LED is connected to the power supply, the current flowing through the LED is limited by the resistor. The resistor value is determined by the power supply voltage, the LED forward voltage, and the desired LED current.

The resistor value is calculated as follows:

$$R = \frac{V_{PS} - V_{LED}}{I_{LED}}$$

where V_{PS} is the power supply voltage, V_{LED} is the LED forward voltage, and I_{LED} is the LED current.
- The resistor value should be chosen such that the LED current is within the specified range. The resistor value should also be chosen such that the power dissipation in the resistor is within the specified range.

The power dissipation in the resistor is calculated as follows:

$$P = I_{LED}^2 R$$

where P is the power dissipation, I_{LED} is the LED current, and R is the resistor value.

(3)

Precautions (3)

5.

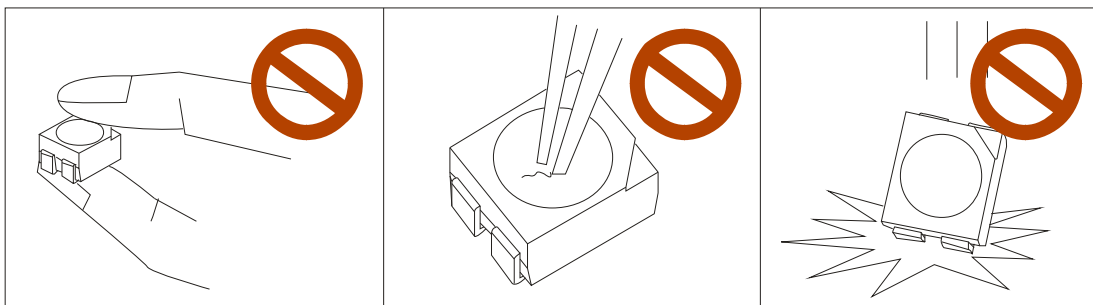
The safe temperature for LEDs working

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6.

Others

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