



**THE DATASHEET OF  
ESS-2525URC-L**



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## DATA SHEET

ESL NO.. : ESS-2525URC-L

CUS NO. :

REV : A / 0

Producer: Eden

Auditor: \_\_\_\_\_

Approver: Jack

CUSTOMER'S APPROVAL : \_\_\_\_\_

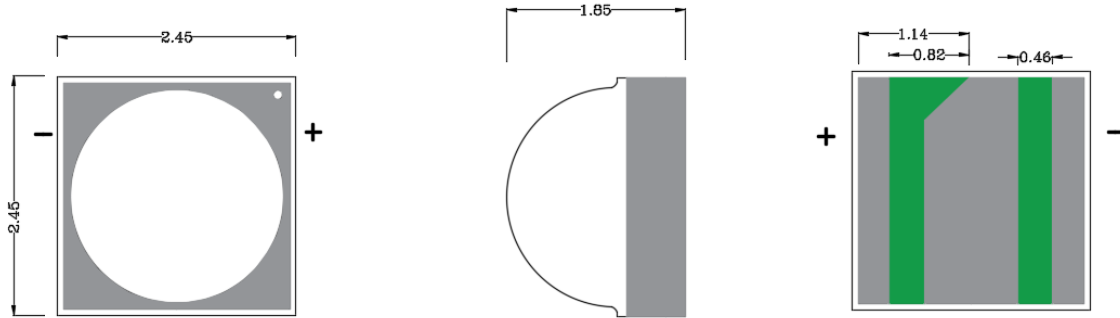
DCC : \_\_\_\_\_

# 2525 LED

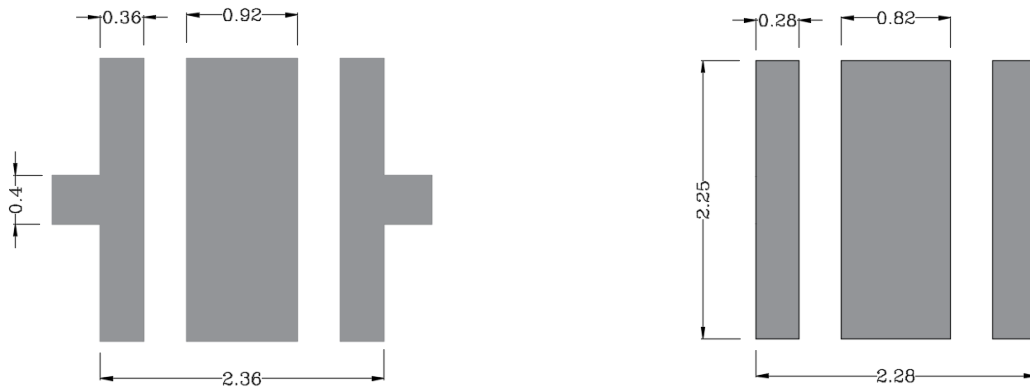
## ESS-2525URC-L

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### Dimensional Drawing



### Recommended Solder Pad



Steel mesh size

### Note:

All Dimensions are in millimeters.

2525 LED

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FEATURES :

- \* 2.45\*2.45\*1.85mm
- \* Flip Chip Technology
- \* Viewing Angle: 120°
- \* Moisture proof grade: L3
- \* RoHS compliant

Applications :

- \* Commercial lighting
- \* Industrial lighting

CHIP MATERIALS:

- \* Dice Material :AlGaInP
- \* Light Color: Red
- \* Lens Color: Water Clear

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## ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )

| Symbol | DESCRIPTION                      | Rated          | Unit |
|--------|----------------------------------|----------------|------|
| Topr   | Operating Temperature Range      | -40°C ~ +105°C |      |
| Tstg   | Storage Temperature Range        | -40°C ~ +120°C |      |
| PD     | Power Dissipation Per Chip       | 1              | W    |
| IF     | Average Forward Current Per Chip | 350            | mA   |
| IFp    | Peak Forward Current Per Chip    | 700            | mA   |

## ELECTRO-OPTICAL CHARACTERISTICS : ( Ta = 25°C )

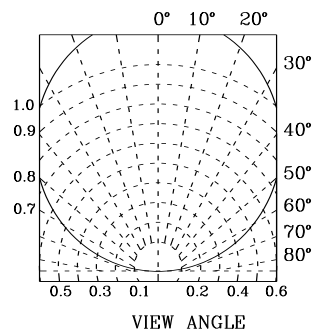
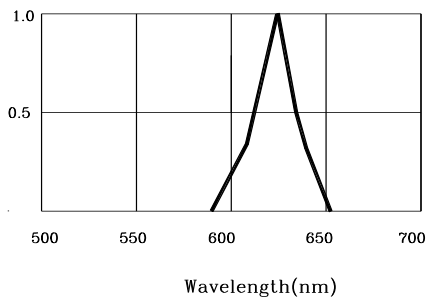
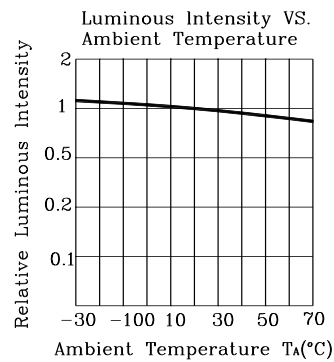
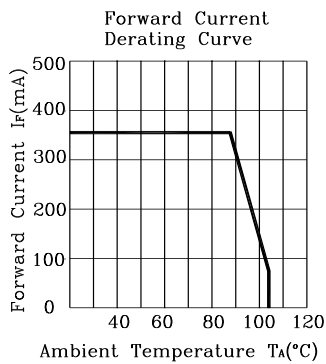
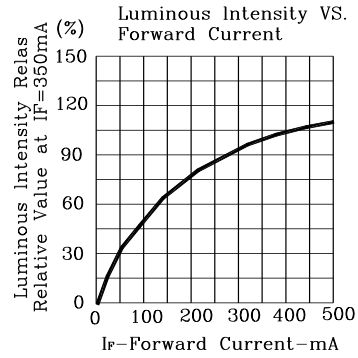
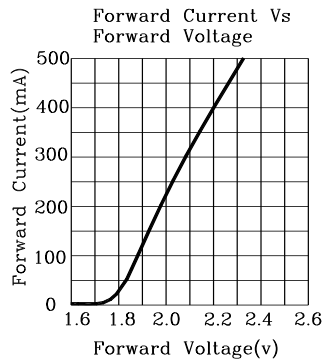
| SYMBOL  | PARAMETER                | TEST      | MIN. | TYP. | MAX. | UNIT |
|---------|--------------------------|-----------|------|------|------|------|
| Vf      | Forward Voltage          | IF=350mA  | 2.0  |      | 2.5  | V    |
| IR      | Reverse Current          | VR=5 V    |      |      | 10   | μ A  |
| λ d     | Dominant Wavelength      | IF=350mA  | 620  |      | 630  | nm   |
| Δ λ     | Spectral Line Half-Width | IF=350mA  |      | 30   |      | nm   |
| 2 θ 1/2 | Half Intensity Angle     | IF=350mA  |      | 120  |      | deg  |
| Iv      | Luminous Intensity       | IF= 350mA | 40   |      | 60   | lm   |

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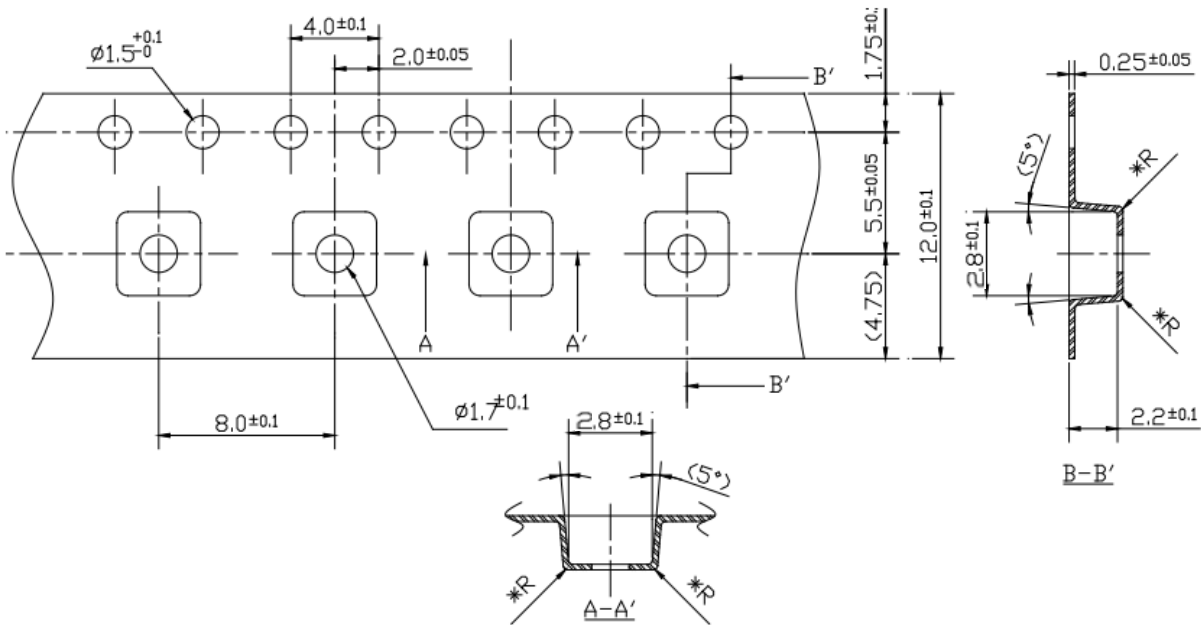
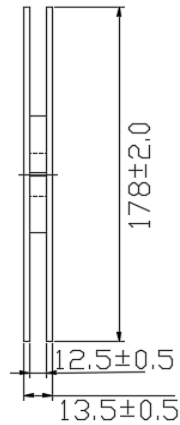
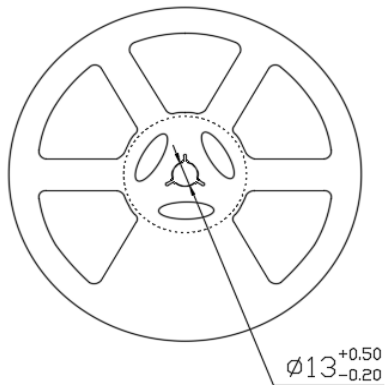
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## SPECTRUM CHART



Package Tape Specifications: ( 2500 pcs/Reel)





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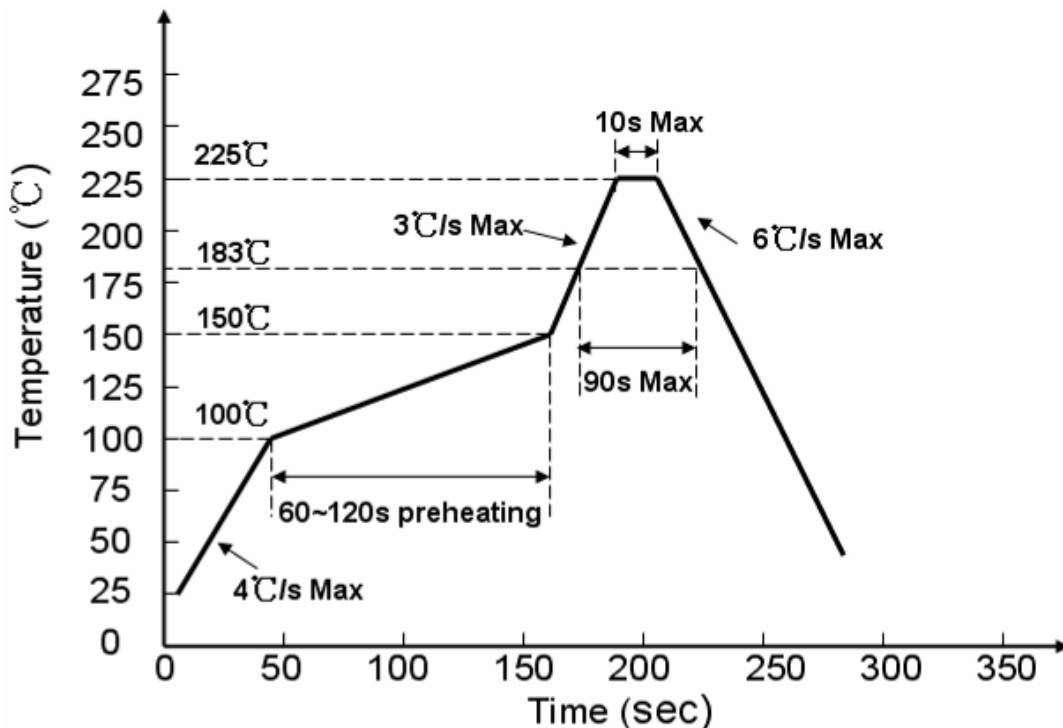
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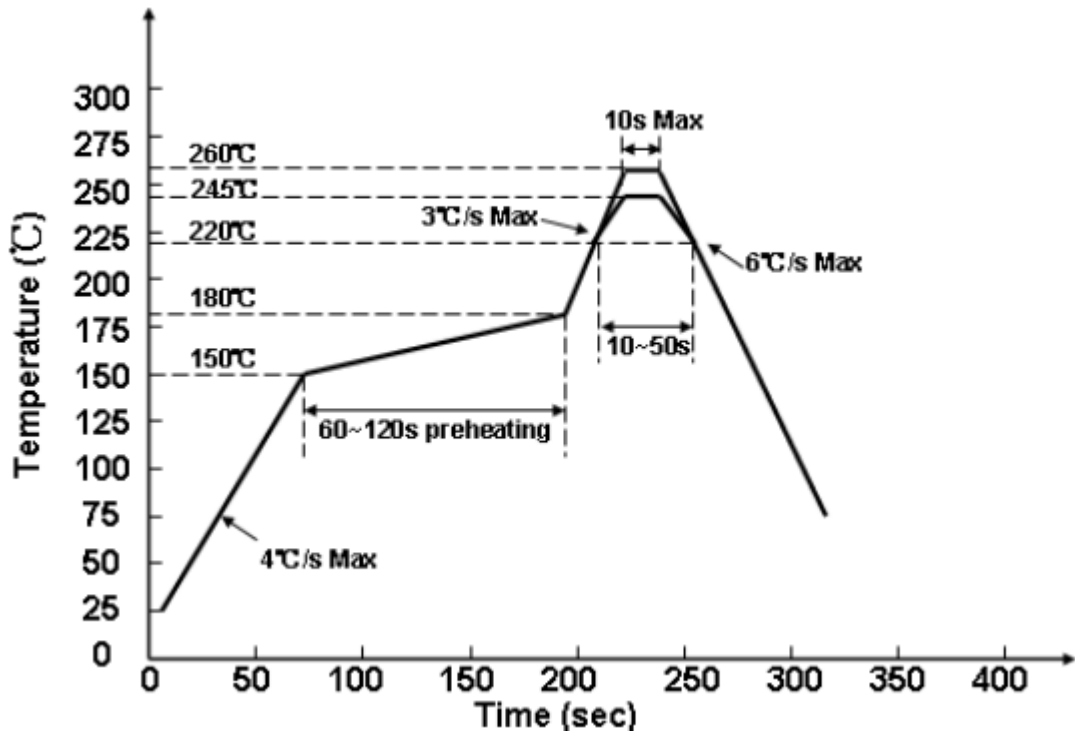
## ※ Precautions for use :

- 1) Customer must apply the current limiting resistor in the circuit so as to drive the LEDs within the rated current. Otherwise slight voltage shift maybe will cause big current change and burn out will happen.
- 2) Also, caution should be taken not to overload the LEDs with instantaneous high voltage at the turning ON and OFF of the circuit.
- 3) Storage:
  - a) 3.1 Don't open the moisture proof bag before ready to use the LEDs.
  - b) 3.2 The LEDs should be kept at 30°C or less and 60%RH or less before opening the package. The max. storage period before opening the package is 1 year.
  - c) 3.3 After opening the package, the LEDs should be kept at 30°C/35%RH or less, and it should be used within 7 days.
  - d) 3.4 If the LEDs be kept over the conditions of 3.4, baking is required before mounting.  
Baking condition as below:  $60 \pm 5^\circ\text{C}$  for 12 hrs.
- 4) Soldering condition:

### 4.1 Lead Solder:



4.2 Lead Free Solder:



Note:

- a) 1.Reflow soldering should not be done more than two times.
- b) 2. Don't put stress on the LEDs when soldering.
- c) 3.Don't warp the circuit board before it have been returned to normal ambient conditions after soldering

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