

## Description

The MAL-C002R is a striped type light source designed for a variety of applications , mainly used as high mounted stop lamp for automobile.

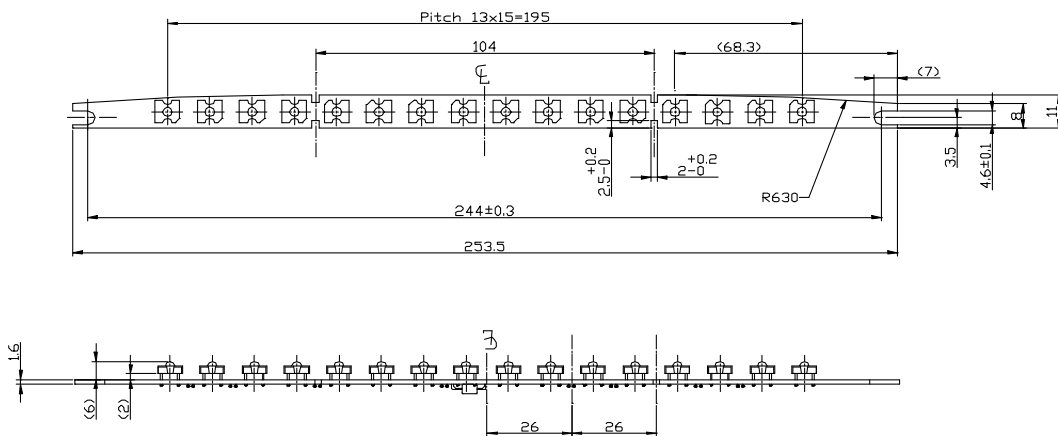
The light device utilize LED chips which are made from Aluminum Indium Gallium Phosphide (AlInGaP) material.

The number of built-in JACK LEDS : 16 pcs of AlInGaP bright red LED.

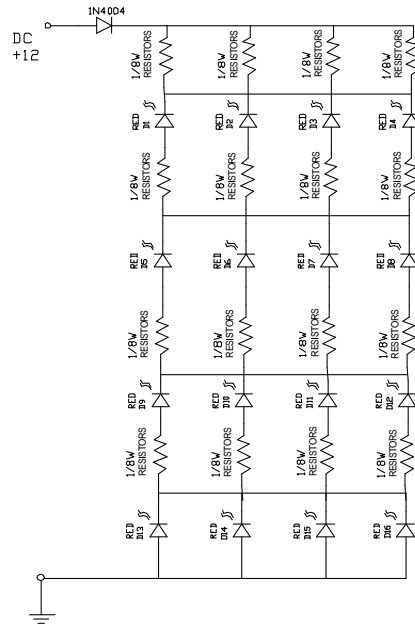
## Features

- Wide viewing angle and good reliability.
- Long operation life and low power requirement.
- High luminous intensity.
- High speed response.
- Suitable for multiples operation.

## Package Dimensions



## Internal Circuit



## Absolute Maximum Ratings at Ta=25°C

| Parameter   | Symbol           | Maximum Rating | Unit |
|---|------------------|----------------|------|
| Power Dissipation   | P                | 3.5            | W    |
| Continuous Forward Voltage                                      | V <sub>F</sub>   | 13.8           | V    |
| Peak Forward Voltage<br>( @ 1/3 duty cycle, 0.1ms pulse width ) | V <sub>p</sub>   | 18             | V    |
| Continuous Forward Current                                      | I <sub>F</sub>   | 250            | mA   |
| Operating Temperature Range                                     | T <sub>opr</sub> | -25°C to +60°C |      |
| Storage Temperature Range                                       | T <sub>sto</sub> | -30°C to +80°C |      |

## Electrical Characteristics at Ta=25°C

| Parameter                | Symbol         | Min. | Typ. | Max. | Unit | Test condition |
|--------------------------|----------------|------|------|------|------|----------------|
| Luminous Intensity       | I <sub>v</sub> | 25   | 35   | -    | cd   | 12V            |
| Forward Current          | I <sub>F</sub> | -    | 640  | -    | mA   | 12V            |
| Reverse Current          | I <sub>R</sub> | -    | -    | 100  | μA   | 12V            |
| Peak Emission Wavelength | λ <sub>d</sub> | -    | 625  | -    | nm   | 12V            |