

# SLR-342 Series

## Features

- Viewing angle  $2\theta$  1/2 : 40°

 Color Type V D Y M

## Specifications

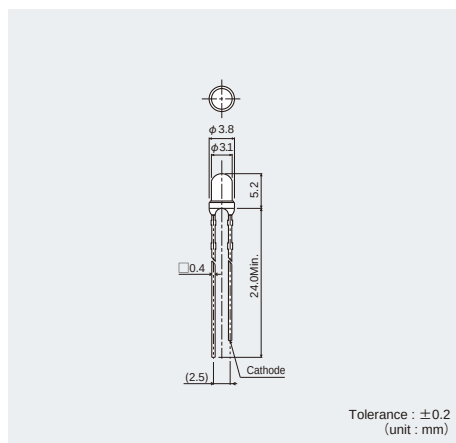
 Viewing angle  $2\theta$  1/2 : 40°: Standard

| Part No.    | Chip Structure | Emitting Color  | Absolute Maximum Ratings (Ta=25℃) |                        |                              |                       |                               |                             | Electrical and Optical Characteristics (Ta=25℃) |                                          |                                  |                                             |           |                     |     |    |     |
|-------------|----------------|-----------------|-----------------------------------|------------------------|------------------------------|-----------------------|-------------------------------|-----------------------------|-------------------------------------------------|------------------------------------------|----------------------------------|---------------------------------------------|-----------|---------------------|-----|----|-----|
|             |                |                 | Power Dissipation Pd(mW)          | Forward Current If(mA) | Peak Forward Current Ifp(mA) | Reverse Voltage Vr(V) | Operating Temperature Topr(℃) | Storage Temperature Tstg(℃) | Forward Voltage V <sub>f</sub> Typ.(V)          | Reverse Current I <sub>r</sub> Max. (μA) | Dominant Wavelength λ D Typ.(nm) | Luminous Intensity I <sub>v</sub> Min.(mcd) | Typ.(mcd) | I <sub>f</sub> (mA) |     |    |     |
| ■ SLR-342VC | GaAsP on GaP   | Red             |                                   |                        |                              |                       |                               |                             | 2.0                                             |                                          |                                  |                                             | 630       |                     | 9.0 | 25 |     |
| ■ SLR-342DC |                | Orange          | 60                                | 20                     |                              |                       |                               |                             |                                                 |                                          |                                  |                                             | 605       |                     |     |    |     |
| ■ SLR-342YC |                | Yellow          |                                   |                        |                              |                       |                               |                             | 2.1                                             |                                          |                                  |                                             | 587       |                     | 5.6 | 16 |     |
| ■ SLR-342MC | GaP            | Yellowish Green | 75                                | 25                     | 60*                          | 3                     | -25 to +85                    | -30 to +100                 | 10                                              | 10                                       | 3                                | 572                                         | 10        | 9.0                 | 25  | 10 |     |
| ■ SLR-342VR | Red            |                 |                                   |                        |                              |                       |                               |                             |                                                 |                                          |                                  |                                             |           |                     | 630 |    |     |
| ■ SLR-342DU | GaAsP on GaP   | Orange          | 60                                | 20                     |                              |                       |                               |                             |                                                 |                                          |                                  |                                             |           |                     |     |    | 605 |
| ■ SLR-342YY |                | Yellow          |                                   |                        |                              |                       |                               |                             |                                                 |                                          | 587                              |                                             | 3.6       | 10                  |     |    |     |
| ■ SLR-342MG |                | GaP             | Yellowish Green                   | 75                     |                              |                       |                               |                             | 25                                              |                                          |                                  | 572                                         |           | 5.6                 | 16  |    |     |

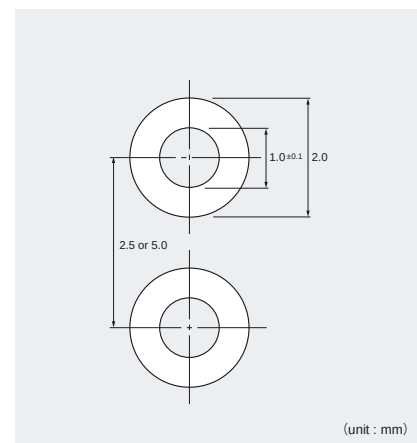
\*SLR-342 series are only available as formed lead types. SLR-343 series are recommended for bulk, and straight lead types.

\*:Duty1/5, 200Hz

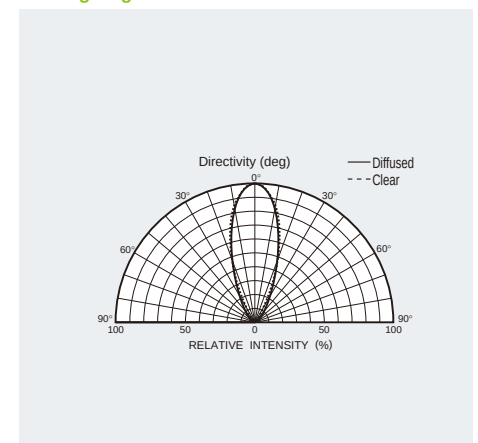
## Dimensions



## Recommended Solder Pattern

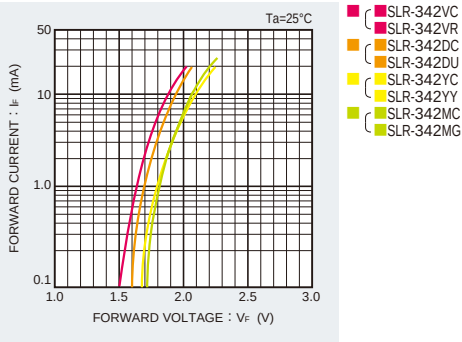


## Viewing Angle

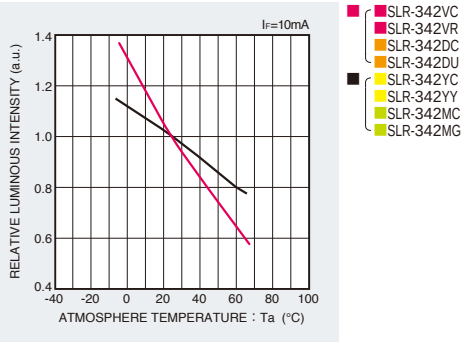


Electrical Characteristics Curves

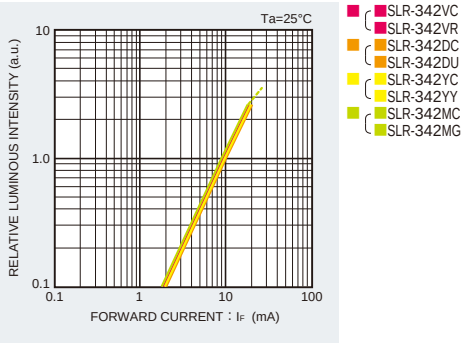
Forward Current-Forward Voltage



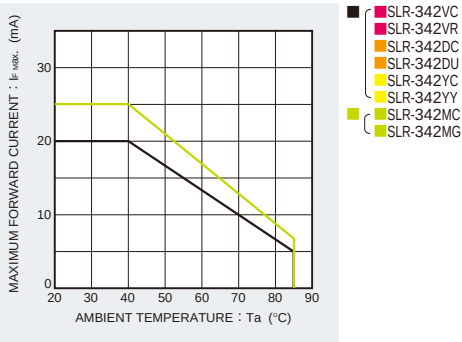
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Rank Reference of Brightness

Red (V)

(Ta=25°C, If=10mA)

|                     | Viewing angle<br>(2θ1/2) | Brightness Rank     | E            | F           | G          | H          | J          | K          | L         | M        | N        | P        | Q        | R         | S          | T          | U          | V          |
|---------------------|--------------------------|---------------------|--------------|-------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|-----------|------------|------------|------------|------------|
|                     |                          | Brightness (mcd)    | 0.40 to 0.63 | 0.63 to 1.0 | 1.0 to 1.6 | 1.6 to 2.5 | 2.5 to 4.0 | 4.0 to 6.3 | 6.3 to 10 | 10 to 16 | 16 to 25 | 25 to 40 | 40 to 63 | 63 to 100 | 100 to 160 | 160 to 250 | 250 to 400 | 400 to 630 |
| φ3<br>Circular type | 40°                      | Resin Color         |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Transparent Colored |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Diffused Colored    |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |

Orange (D)

(Ta=25°C, If=10mA)

|                     | Viewing angle<br>(2θ1/2) | Brightness Rank     | E            | F           | G          | H          | J          | K          | L         | M        | N        | P        | Q        | R         | S          | T          | U          | V          |
|---------------------|--------------------------|---------------------|--------------|-------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|-----------|------------|------------|------------|------------|
|                     |                          | Brightness (mcd)    | 0.40 to 0.63 | 0.63 to 1.0 | 1.0 to 1.6 | 1.6 to 2.5 | 2.5 to 4.0 | 4.0 to 6.3 | 6.3 to 10 | 10 to 16 | 16 to 25 | 25 to 40 | 40 to 63 | 63 to 100 | 100 to 160 | 160 to 250 | 250 to 400 | 400 to 630 |
| φ3<br>Circular type | 40°                      | Resin Color         |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Transparent Colored |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Diffused Colored    |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |

Yellow (Y)

(Ta=25°C, If=10mA)

|                     | Viewing angle<br>(2θ1/2) | Brightness Rank     | E            | F           | G          | H          | J          | K          | L         | M        | N        | P        | Q        | R         | S          | T          | U          | V          |
|---------------------|--------------------------|---------------------|--------------|-------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|-----------|------------|------------|------------|------------|
|                     |                          | Brightness (mcd)    | 0.40 to 0.63 | 0.63 to 1.0 | 1.0 to 1.6 | 1.6 to 2.5 | 2.5 to 4.0 | 4.0 to 6.3 | 6.3 to 10 | 10 to 16 | 16 to 25 | 25 to 40 | 40 to 63 | 63 to 100 | 100 to 160 | 160 to 250 | 250 to 400 | 400 to 630 |
| φ3<br>Circular type | 40°                      | Resin Color         |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Transparent Colored |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Diffused Colored    |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |

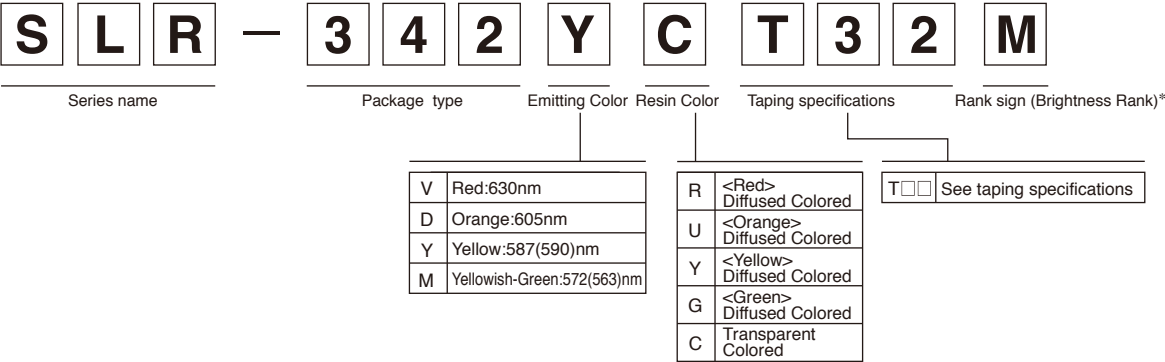
Green (M)

(Ta=25°C, If=10mA)

|                     | Viewing angle<br>(2θ1/2) | Brightness Rank     | E            | F           | G          | H          | J          | K          | L         | M        | N        | P        | Q        | R         | S          | T          | U          | V          |
|---------------------|--------------------------|---------------------|--------------|-------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|-----------|------------|------------|------------|------------|
|                     |                          | Brightness (mcd)    | 0.40 to 0.63 | 0.63 to 1.0 | 1.0 to 1.6 | 1.6 to 2.5 | 2.5 to 4.0 | 4.0 to 6.3 | 6.3 to 10 | 10 to 16 | 16 to 25 | 25 to 40 | 40 to 63 | 63 to 100 | 100 to 160 | 160 to 250 | 250 to 400 | 400 to 630 |
| φ3<br>Circular type | 40°                      | Resin Color         |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Transparent Colored |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |
|                     |                          | Diffused Colored    |              |             |            |            |            |            |           |          |          |          |          |           |            |            |            |            |

※Brightness on specification sheet include tolerance of within ± 10%.

Part No. Construction



- \* Concerning the Brightness rank
- Please refer to the rank chart above for luminous intensity classification.
  - Part name is individual for each rank.
  - When shipped as sample, the part name will be a representative part name.
- General products are free of ranks. Please contact sales if rank appointment is needed.

Packing Specification

ROHM LED products are being shipped with desiccant (silica gel) concluded in moisture-proof bags.  
Pasting the moisture sensitive label on the outer surface of the moisture-proof bags or enclosing the humidity indication card inside the bag is available upon request.  
Please contact the nearest sales office or distributor if necessary.

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