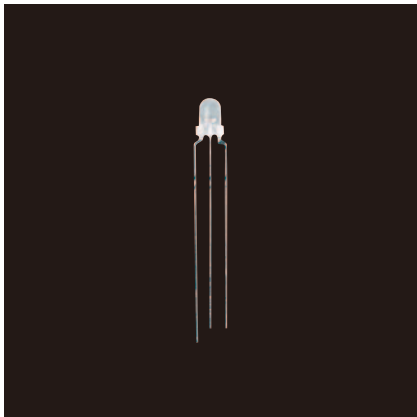




# SPR-39 series

## Features

- Viewing angle  $2\theta$  1/2 : 35°

Color Type

## Specifications

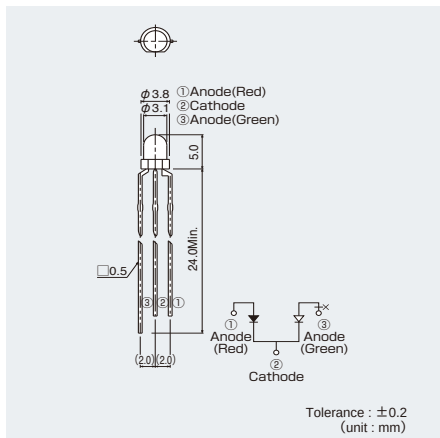
 Viewing angle  $2\theta$  1/2 : 35° : Standard

| Part No.      | Chip Structure | Emitting Color  | Absolute Maximum Ratings (Ta=25°C) |                        |                              |                       |                                |                              | Electrical and Optical Characteristics (Ta=25°C) |        |                              |       |                                 |        |                                                    |
|---------------|----------------|-----------------|------------------------------------|------------------------|------------------------------|-----------------------|--------------------------------|------------------------------|--------------------------------------------------|--------|------------------------------|-------|---------------------------------|--------|----------------------------------------------------|
|               |                |                 | Power Dissipation Pd(mW)           | Forward Current If(mA) | Peak Forward Current Ifp(mA) | Reverse Voltage Vr(V) | Operating Temperature Topr(°C) | Storage Temperature Tstg(°C) | Forward Voltage Vf Typ. (V)                      | If(mA) | Reverse Current Ir Max. (μA) | Vr(V) | Dominant Wavelength λD Typ.(nm) | If(mA) | Luminous Intensity Iv Min. (mcd) Typ. (mcd) If(mA) |
| ■ ■ SPR-39MVW | GaAsP on GaP   | Red             | 60                                 | 20                     | 60*                          | 3                     | -25 to +85                     | -30 to +100                  | 2.0                                              | 10     | 100                          | 3     | 650                             | 10     | 2.2 6.3                                            |
|               | GaP            | Yellowish Green | 75                                 | 25                     |                              |                       |                                |                              | 2.1                                              |        |                              |       | 563                             |        | 3.6 10                                             |

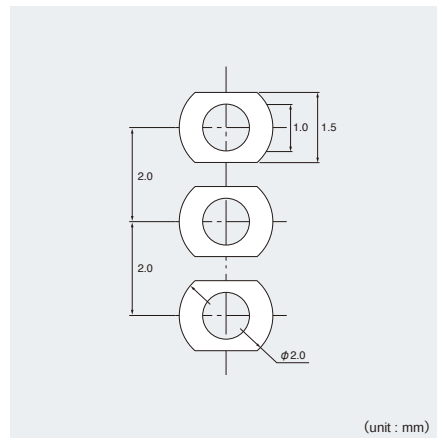
\*: Duty 1/5, 200Hz

\*: Individual pieces are not connected together with tapings.

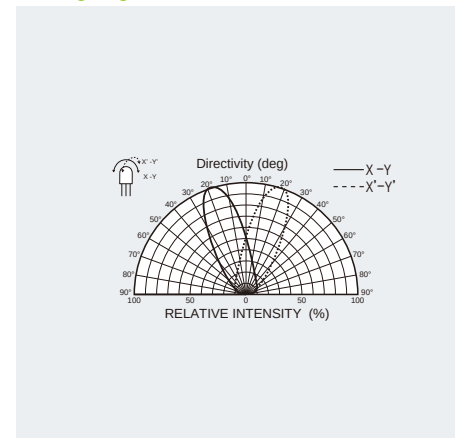
## Dimensions



## Recommended Solder Pattern

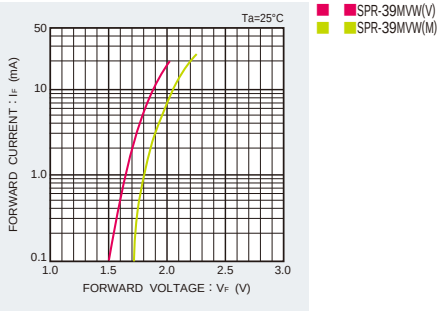


## Viewing Angle

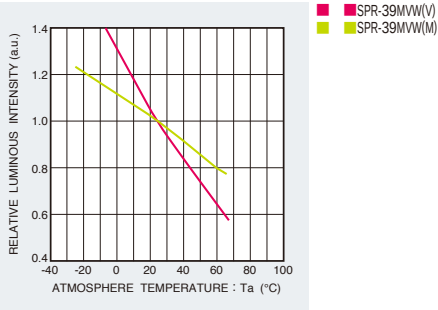


Electrical Characteristics Curves

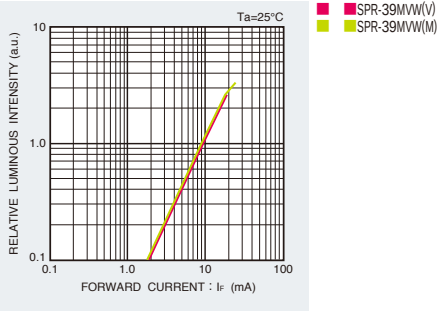
Forward Current-Forward Voltage



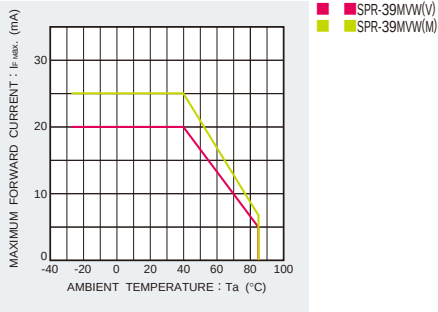
Luminous Intensity-Atmosphere Temperature



Luminous Intensity-Forward Current



Derating



Rank Reference of Brightness

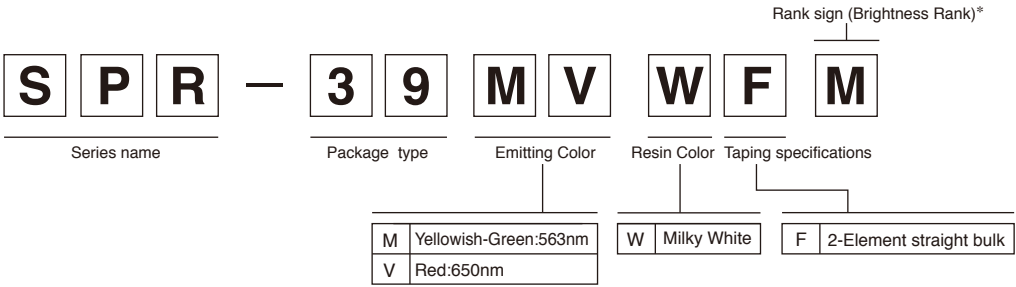
Dual Color

(Ta=25°C, If=10mA)

|                         | Viewing angle<br>(2θ1/2) | Brightness Rank     |             | E            | F           | G          | H          | J          | K          | L         | M         | N        | P        | Q        | R         |
|-------------------------|--------------------------|---------------------|-------------|--------------|-------------|------------|------------|------------|------------|-----------|-----------|----------|----------|----------|-----------|
|                         |                          | Brightness<br>(mcd) | Resin Color | 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 |
| φ3.1<br>Dual-color type | 35°                      | (Green)             |             |              |             |            |            |            |            |           | SPR-39MVW |          |          |          |           |

\*"SYMBOL" are settled for Green only.  
For red, we set only min, intensity and not "SYMBOL".

Part No. Explanation



- \* 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.
- \* "SYMBOL" are settled for Green only.  
For red, we set only min, intensity and not "SYMBOL".

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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