

## CURRENT REGULATIVE LED

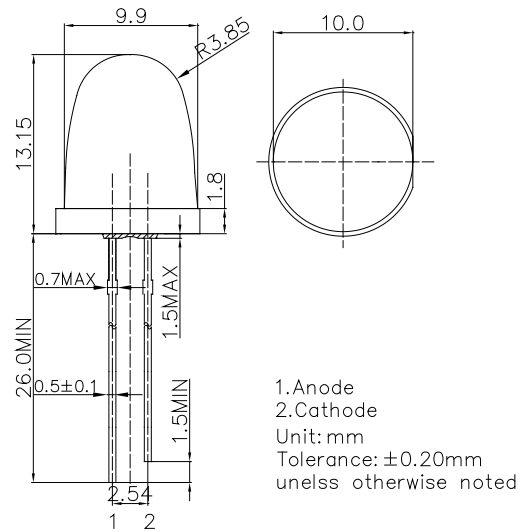
# CRLED

- CRLED is LED which supplies constant current to keep LED Intensity Consistency even when power supply voltage fluctuations or load impedance fluctuations occur.
- CRLED is used with current stabilization and current limiting

### ■Features

- High Luminous LED
- 10mm Bullet Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

### ■Outline Dimension

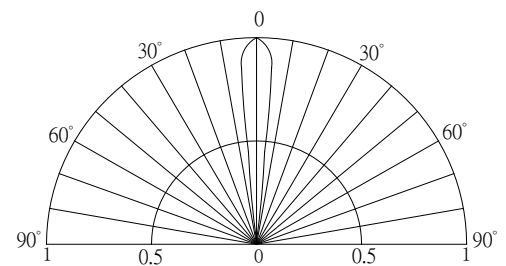


### ■Absolute Maximum Rating

(Ta=25°C)

| Item                       | Symbol           | Value      | Unit |
|----------------------------|------------------|------------|------|
| DC Forward Voltage         | V <sub>F</sub>   | 20         | V    |
| Power Dissipation          | P <sub>D</sub>   | 320        | mW   |
| Operating Temperature      | T <sub>opr</sub> | -30 ~ +85  | °C   |
| Storage Temperature        | T <sub>stg</sub> | -40 ~ +100 | °C   |
| Lead Soldering Temperature | T <sub>sol</sub> | 260°C/5sec | -    |

### ■Directivity



### ■Electrical -Optical Characteristics

(Ta=25°C)

| Part Number         | Color      | V <sub>F</sub> (V)* |      | I <sub>F</sub> (mA)  |      |      | I <sub>R</sub> (μA) | I <sub>v</sub> (mcd)* |       |      | λD(nm)*                        |      |      | 2θ1/2(deg) |
|---------------------|------------|---------------------|------|----------------------|------|------|---------------------|-----------------------|-------|------|--------------------------------|------|------|------------|
|                     |            | Min.                | Max. | Min.                 | Typ. | Max. | Max.                | Min.                  | Typ.  | Max. | Min.                           | Typ. | Max. | Typ.       |
|                     |            |                     |      | V <sub>F</sub> = 12V |      |      | V <sub>R</sub> = 8V | V <sub>F</sub> = 12V  |       |      | V <sub>F</sub> = 12V           |      |      |            |
| OSW5DKA201A-CRLED14 | White      | 5.5                 | 20   |                      | 14   | -    | 10                  | -                     | 60000 | -    | X=0.27, Y=0.28(CCT:8500-18000) |      |      | 8          |
| OSM5DKA201A-CRLED14 | Warm White | 5.5                 | 20   |                      | 14   | -    | 10                  | -                     | 60000 | -    | X=0.44, Y=0.41(CCT:2700-3300)  |      |      | 8          |
| OSB5SAA201A-CRLED14 | Blue       | 5.5                 | 20   |                      | 14   | -    | 10                  | -                     | 10000 | -    | 465                            | 470  | 475  | 8          |
| OSG5DAA201A-CRLED14 | Pure Green | 5.5                 | 20   |                      | 14   | -    | 10                  | -                     | 60000 | -    | 520                            | 525  | 530  | 8          |
| OSY5PAA201A-CRLED14 | Yellow     | 5                   | 20   |                      | 14   | -    | 10                  | -                     | 14400 | -    | 585                            | 590  | 595  | 8          |
| OSO5PAA201A-CRLED14 | Orange     | 5                   | 20   |                      | 14   | -    | 10                  | -                     | 14400 | -    | 600                            | 605  | 610  | 8          |
| OSR5PAA201A-CRLED14 | Red        | 5                   | 20   |                      | 14   | -    | 10                  | -                     | 14400 | -    | 620                            | 625  | 630  | 8          |

\*1 Tolerance of measurements of chromaticity coordinate is ±10%

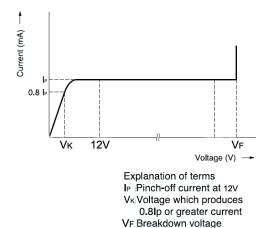
\*2 Tolerance of measurements of dominant wavelength is ±1nm

\*3 Tolerance of measurements of luminous intensity is ±15%

\*4 Tolerance of measurements of forward voltage is ±0.1V

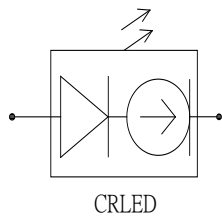
### ■Applications

- Electronic Signs And Signals/ Small Area Illuminations
- Back Lighting/ Toys/ Other Lighting

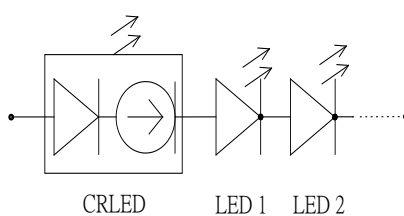


## ■ Typical Applications

1 : Single LED



2 : Multi- LEDs in series



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