

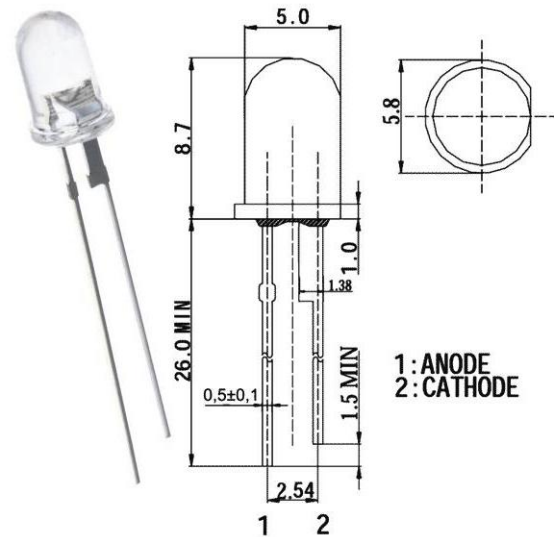
### ■Features

- High Power LEDs
- 5mm Standard Directivity
- Water Clear Type
- Flashing Type
- Superior Weather-resistance

### ■Applications

- Automotive Dashboard Lighting
- Traffic Signal Lamp

### ■Outline Dimension

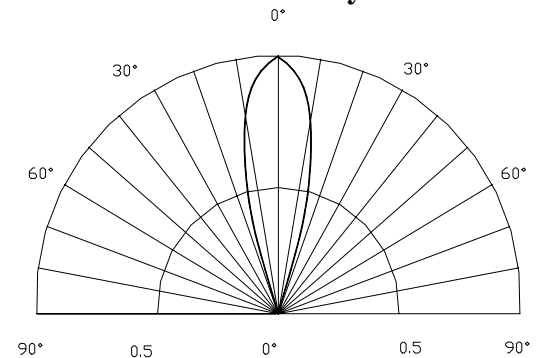


### ■Absolute Maximum Rating (Ta=25 °C)

| Item                       | Symbol | Value      | Unit |
|----------------------------|--------|------------|------|
| Oscillator Frequency       | Fled   | 1.5        | Hz   |
| Operating Temperature      | Topr   | -30 ~ +80  |      |
| Storage Temperature        | Tstg   | -30 ~ +100 |      |
| Lead Soldering Temperature | Tsol   | 260 /3sec  | -    |

\*Pulse width Max.10ms Duty ratio max 1/10

### ■Directivity

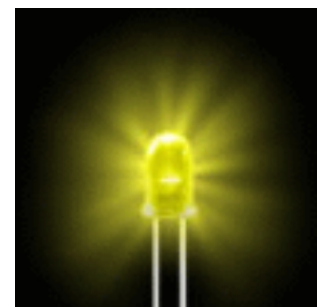


### ■Electrical -Optical Characteristics (Ta=25 °C)

| Item               | Symbol           | Condition            | Min. | Typ. | Max. | Unit |
|--------------------|------------------|----------------------|------|------|------|------|
| Operating Voltage  | Vdd              | -                    | 4.5  | 5.0  | 6.0  | V    |
| Operating Current  | Iop              | -                    | -    | 10   | 40   | mA   |
| Quiescent Current  | Isb              | -                    | -    | 1    | 5    | uA   |
| Driving Current    | Iol              | -                    | -    | 25   | -    | mA   |
| Domi. Wavelength   | $\lambda_D$      | I <sub>F</sub> =20mA | 585  | 590  | 595  | nm   |
| Luminous Intensity | I <sub>v</sub>   | I <sub>F</sub> =20mA | 1120 | 1560 | 2180 | mcd  |
| 50% Power Angle    | 2 $\theta_{1/2}$ | I <sub>F</sub> =20mA | -    | 30   | -    | deg  |

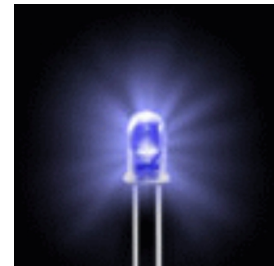
### 5mm Flashing Yellow Led

## OSYL5X31A



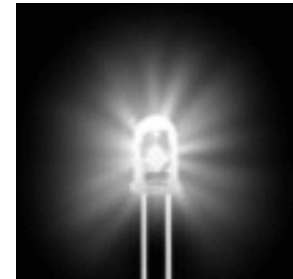
**■Electrical -Optical Characteristics** (Ta=25 )

| Item               | Symbol           | Condition            | Min. | Typ. | Max. | Unit |
|--------------------|------------------|----------------------|------|------|------|------|
| Operating Voltage  | Vdd              | -                    | 4.5  | 5.0  | 6.0  | V    |
| Operating Current  | Iop              | -                    | -    | 10   | 40   | mA   |
| Quiescent Current  | Isb              | -                    |      | 1    | 5    | uA   |
| Driving Current    | Iol              | -                    | -    | 25   | -    | mA   |
| Domi. Wavelength   | $\lambda_D$      | I <sub>F</sub> =20mA | 465  | 470  | 475  | nm   |
| Luminous Intensity | I <sub>v</sub>   | I <sub>F</sub> =20mA | 1560 | 2180 | 3000 | med  |
| 50% Power Angle    | 2 $\theta_{1/2}$ | I <sub>F</sub> =20mA | -    | 30   | -    | deg  |

**5mm Flashing Blue LED**
**OSUB5X31A**


**■Electrical -Optical Characteristics (Ta=25 )**

| Item               | Symbol            | Condition            | Min. | Typ. | Max. | Unit |
|--------------------|-------------------|----------------------|------|------|------|------|
| Operating Voltage  | Vdd               | -                    | 3.5  | 4.0  | 4.8  | V    |
| Operating Current  | Iop               | -                    | -    | 10   | 40   | μA   |
| Reverse Current    | Irc               | Vr=5V                | -    | -    | 10   | μA   |
| Driving Current    | Iol               | -                    | -    | 25   | -    | mA   |
| Domi. Wavelength   | X                 | I <sub>F</sub> =20mA | 0.25 | 0.27 | 0.30 | -    |
|                    | Y                 | I <sub>F</sub> =20mA | 0.26 | 0.28 | 0.31 | -    |
| Luminous Intensity | Iv                | I <sub>F</sub> =20mA | 2000 | 3000 | -    | mcd  |
| 50% Power Angle    | 2θ <sub>1/2</sub> | I <sub>F</sub> =20mA | -    | 30   | -    | deg  |

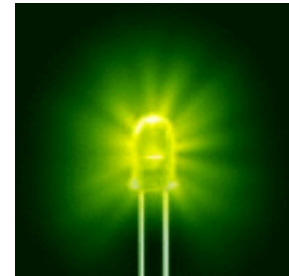
**5mm Flashing White LED**
**OSPW5X31A**


**■Electrical -Optical Characteristics (Ta=25 )**

| Item               | Symbol           | Condition            | Min. | Typ. | Max. | Unit |
|--------------------|------------------|----------------------|------|------|------|------|
| Operating Voltage  | Vdd              | -                    | 4.5  | 5.0  | 6.0  | V    |
| Operating Current  | Iop              | -                    | -    | 10   | 40   | mA   |
| Quiescent Current  | I <sub>sb</sub>  | -                    |      | 1    | 5    | uA   |
| Driving Current    | I <sub>ol</sub>  | -                    | -    | 25   | -    | mA   |
| Domi. Wavelength   | $\lambda_D$      | I <sub>F</sub> =20mA | 520  | 525  | 530  | nm   |
| Luminous Intensity | I <sub>v</sub>   | I <sub>F</sub> =20mA | 3000 | 4200 | 5800 | mcd  |
| 50% Power Angle    | 2 $\theta_{1/2}$ | I <sub>F</sub> =20mA | -    | 30   | -    | deg  |

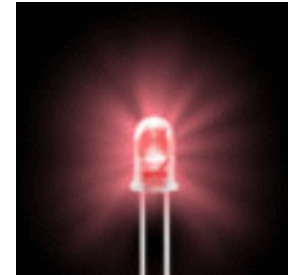
**5mm Flashing Pure Green LED**

**OSPG5X31A**



**■Electrical -Optical Characteristics (Ta=25 )**

| Item               | Symbol           | Condition            | Min. | Typ. | Max. | Unit |
|--------------------|------------------|----------------------|------|------|------|------|
| Operating Voltage  | Vdd              | -                    | 4.5  | 5.0  | 6.0  | V    |
| Operating Current  | Iop              | -                    | -    | 10   | 40   | mA   |
| Quiescent Current  | Isb              | -                    | -    | 1    | 5    | uA   |
| Driving Current    | Iol              | -                    | -    | 25   | -    | mA   |
| Domi. Wavelength   | $\lambda_D$      | I <sub>F</sub> =20mA | 620  | 625  | 630  | nm   |
| Luminous Intensity | I <sub>v</sub>   | I <sub>F</sub> =20mA | 1120 | 1560 | 2180 | mcd  |
| 50% Power Angle    | 2 $\theta_{1/2}$ | I <sub>F</sub> =20mA | -    | 30   | -    | deg  |

**5mm Flashing Red LED**
**OSHR5X31A**

**LED & Application Technologies**
