

## Technical Data Sheet

### 5mm LED: SLR5006

#### ■ Features

- Dominant Wavelength 621nm
- Super brightness
- Pb free
- The product itself will remain within RoHS compliant version.



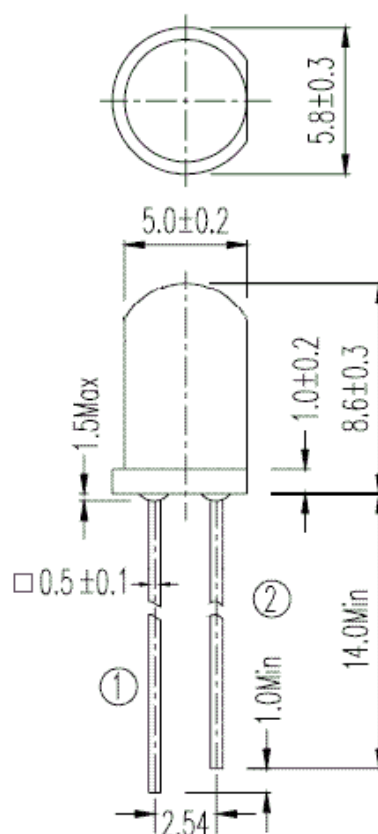
#### ■ Descriptions

The SLR5006 is specially designed for applications requiring super brightness.

#### ■ Applications

- Security system
- Fiber Amplifier
- Optoelectronic switch

#### ■ Package Dimensions

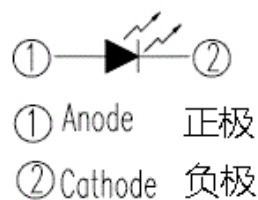


#### Notes:

1. All dimensions are in millimeters
2. Tolerances unless dimensions  $\pm 0.25$  mm

说明：

1. 所有尺寸单位为毫米
2. 未注明的公差为  $\pm 0.25$  mm



## ■ Absolute Maximum Ratings (Ta=25℃)

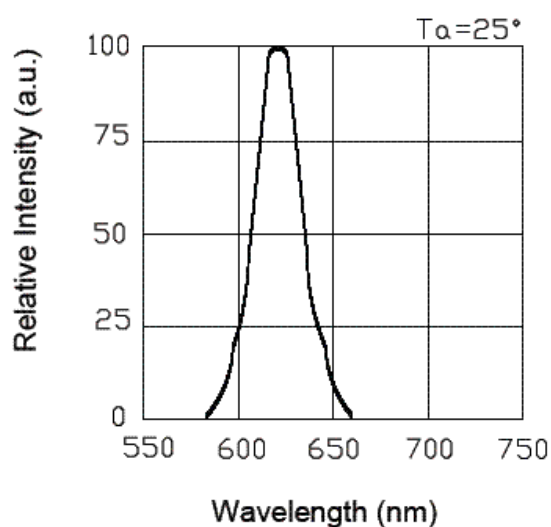
| Parameter                               | Symbol    | Rating     | Units |
|-----------------------------------------|-----------|------------|-------|
| Continuous Forward Current              | $I_F$     | 25         | mA    |
| Peak Forward Current (Duty 1/10 @ 1KHZ) | $I_{PF}$  | 60         | mA    |
| Reverse Voltage                         | $V_R$     | 5          | V     |
| Power Dissipation                       | $P_d$     | 60         | mW    |
| Lead Soldering Temperature              | $T_{sol}$ | 260        | ℃     |
| Operating Temperature                   | $T_{opr}$ | -40 ~ +85  | ℃     |
| Storage Temperature                     | $T_{stg}$ | -40 ~ +100 | ℃     |

## ■ Electro-Optical Characteristics (Ta=25℃)

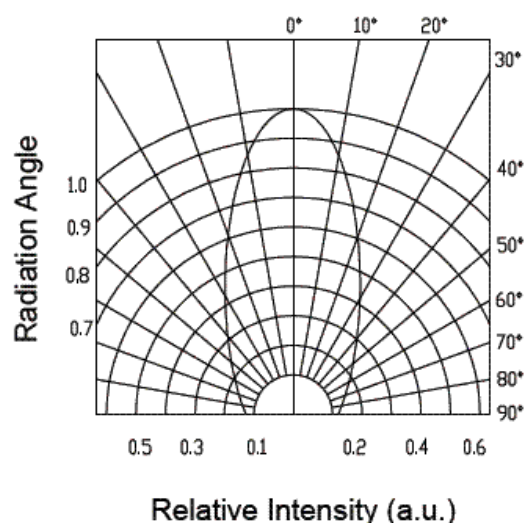
| Parameter                    | Symbol          | Condition           | Min. | Typ. | Max. | Units         |
|------------------------------|-----------------|---------------------|------|------|------|---------------|
| Luminous Intensity           | $I_V$           | $I_F = 20\text{mA}$ | 15   | 25   | —    | cd            |
| Viewing Angle                | $2\theta_{1/2}$ | $I_F = 20\text{mA}$ | —    | 45   | —    | deg           |
| Dominant Wavelength          | $\lambda_d$     | $I_F = 20\text{mA}$ | —    | 621  | —    | nm            |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ | $I_F = 20\text{mA}$ | —    | 20   | —    | nm            |
| Forward Voltage              | $V_F$           | $I_F = 20\text{mA}$ | 1.8  | 2.0  | 2.3  | V             |
| Reverse Current              | $I_R$           | $V_R = 5\text{V}$   | —    | —    | 10   | $\mu\text{A}$ |

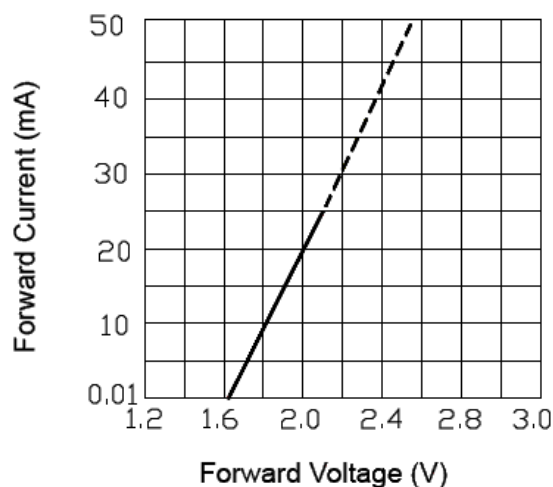
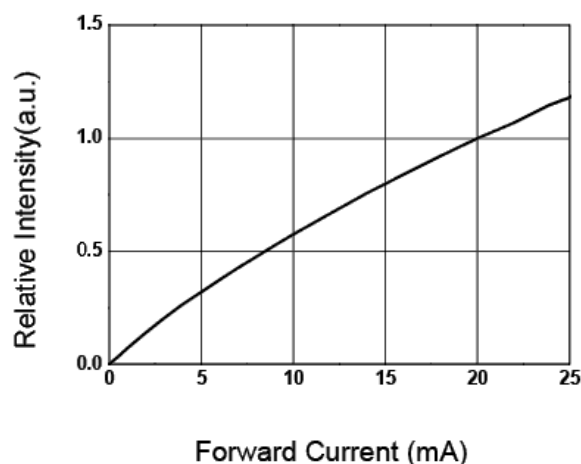
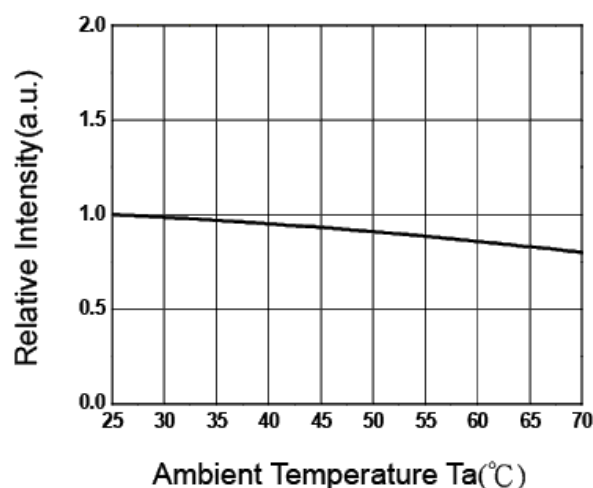
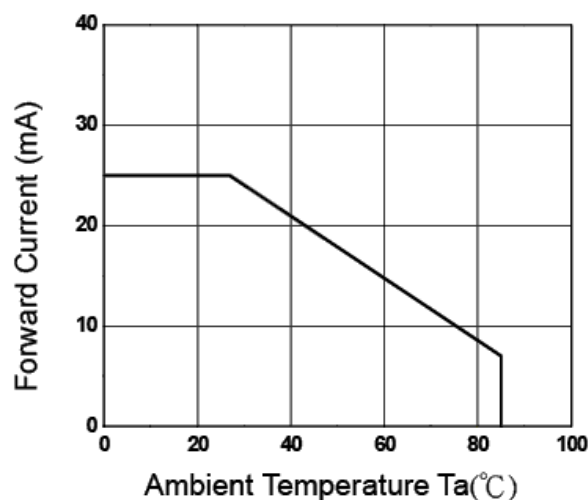
## ■ Typical Electro-Optical Characteristics Curves

Relative Intensity vs. Wavelength (Ta=25℃)



Directivity (Ta=25℃)



**Forward Current vs. Forward Voltage (Ta=25°C)****Relative Intensity vs. Forward Current (Ta=25°C)****Relative Intensity vs. Ambient Temp.****Forward Current vs. Ambient Temp.**

## ■ Packing Quantity Specification

1. 1000PCS/1Bag

## ■ Notes

1. Above specification may be changed without notice. SHUGUAN will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. SHUGUAN assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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