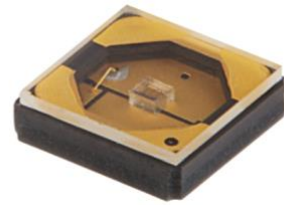


Deep UV LED - 310nm

**UV CA3535 series (CUD1GF1A)**

**CUD1GF1A**



## Product Brief

### Description

CUD1GF1A is a deep ultraviolet light emitting diode with peak emission wavelengths from 305nm to 315nm.

The LED is sealed in Ceramic packages with a choice of UV-transparent optical window.

It incorporates state of the art SMD design and low thermal resistance.

CUD1GF1A is designed for air and water sterilization and tools including chemical and biological analysis in that spectral range.

### Features and Benefits

- Deep ultraviolet LED
- Low thermal resistance
- SMT solderable
- Lead Free product
- RoHS compliant

### Key Applications

- Disinfection
- Fluorescent spectroscopy
- Chemical and Biological analysis

Distributed by



Ohmstrasse 4 85716 Unterschleissheim Germany  
Tel.: +49 89 / 3214120 Fax: +49 89 / 32141211

[www.imm-photonics.de](http://www.imm-photonics.de)  
[sales@imm-photonics.de](mailto:sales@imm-photonics.de)





## Characteristics Graph

Fig 1. Spectrum,  $T_a=25^\circ\text{C}$ ,  $I_F=20\text{mA}$

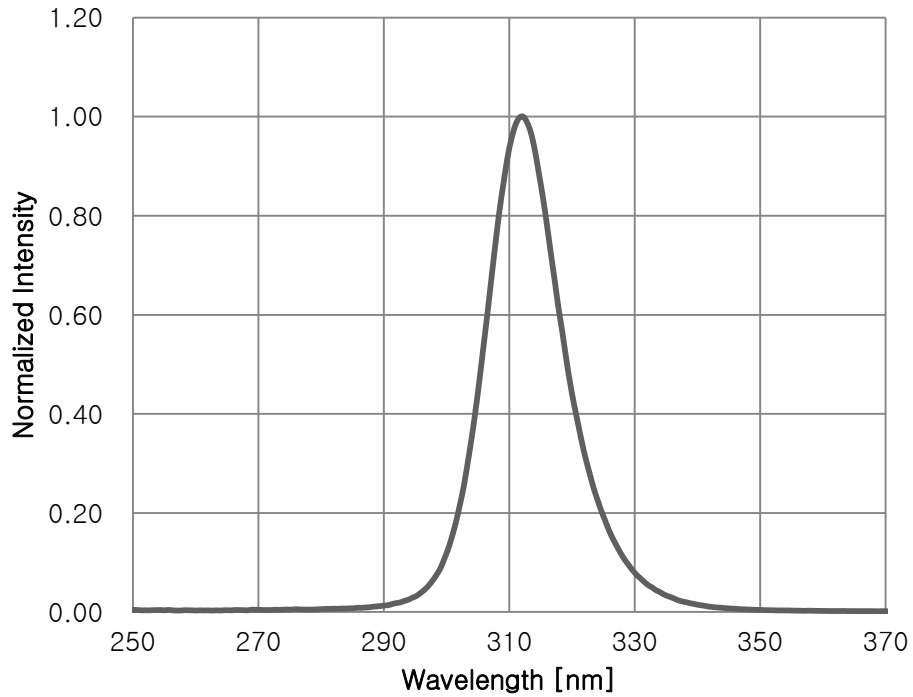
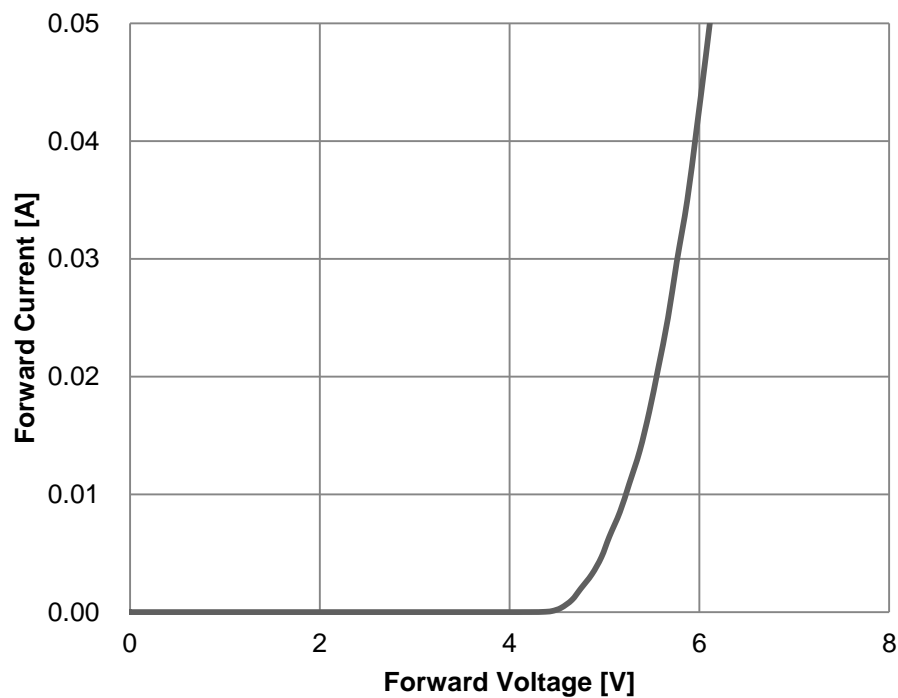
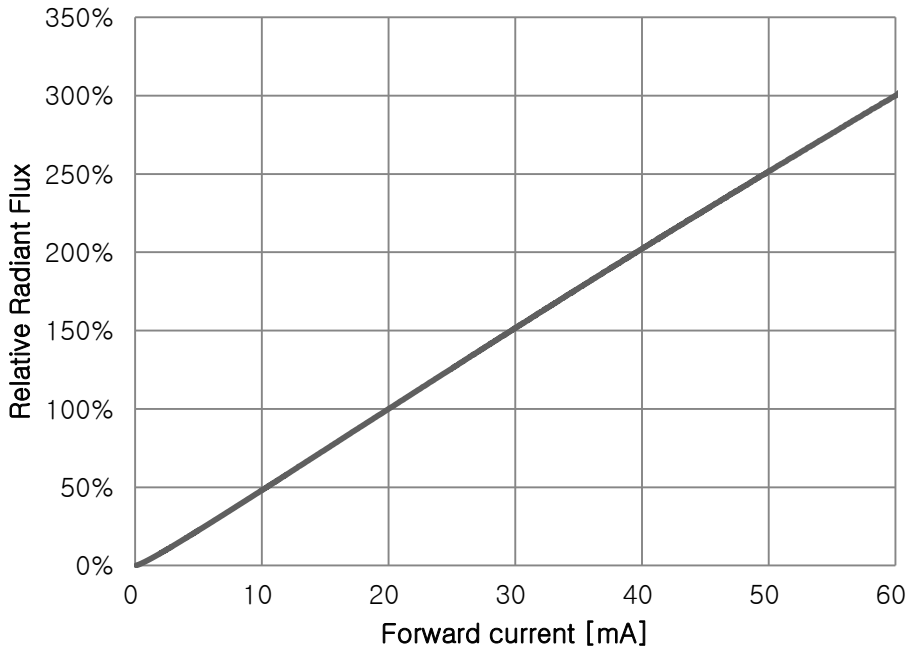


Fig 2. Forward Voltage vs. Forward Current,  $T_a=25^\circ\text{C}$

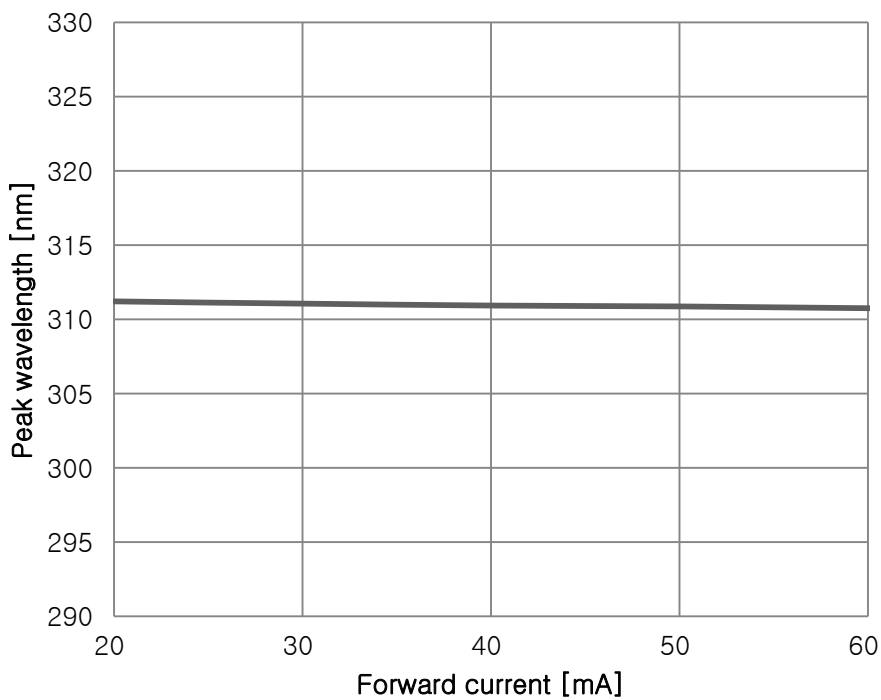


## Characteristics Graph

**Fig 3. Forward Current vs. Relative Radiant Flux,  $T_a=25^\circ\text{C}$**

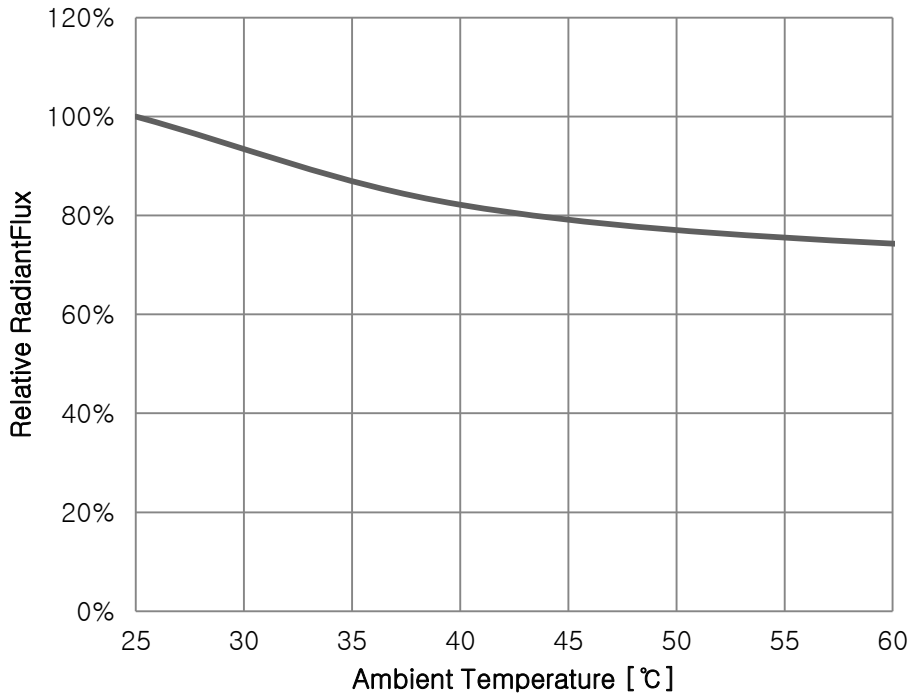


**Fig 4. Forward Current vs. Peak Wavelength,  $T_a=25^\circ\text{C}$**

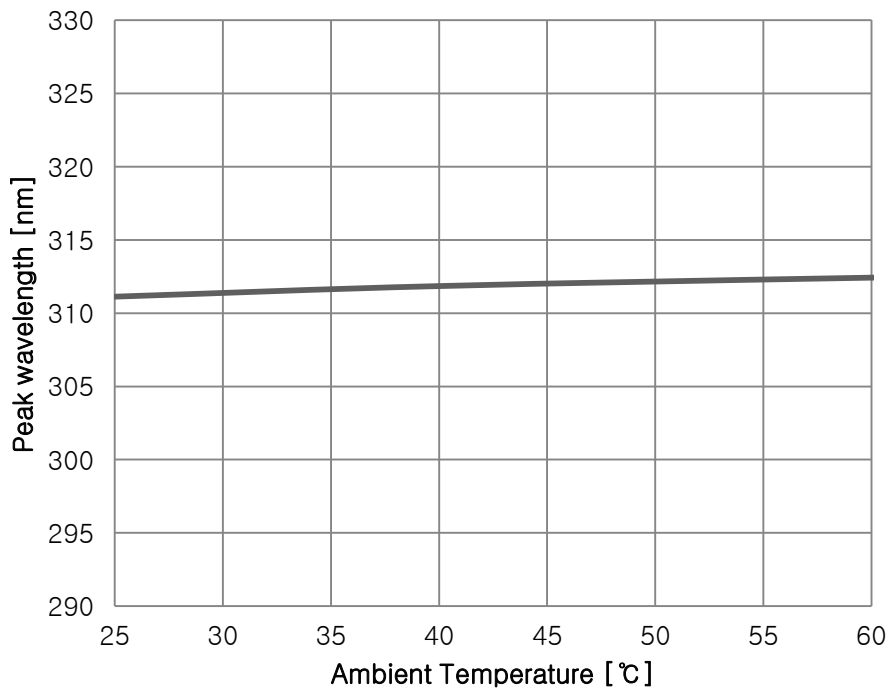


## Characteristics Graph

**Fig 5. Ambient Temperature vs. Relative Radiant Flux,  $I_F=20mA$**



**Fig 6. Ambient Temperature vs. Peak Wavelength,  $I_F=20mA$**



## Characteristics Graph

Fig 7. Ambient Temperature vs. Forward Voltage,  $I_F=20\text{mA}$

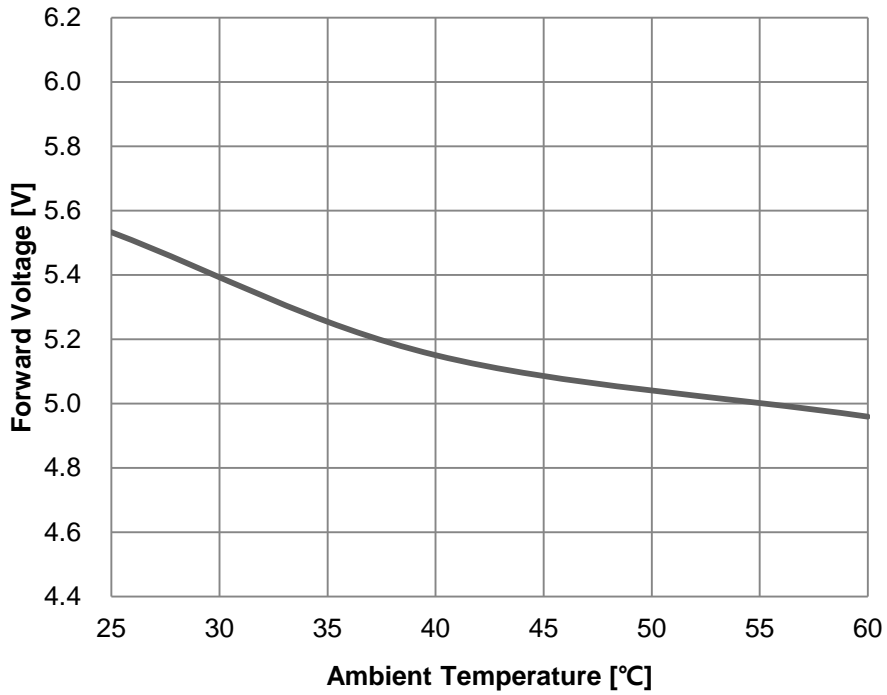
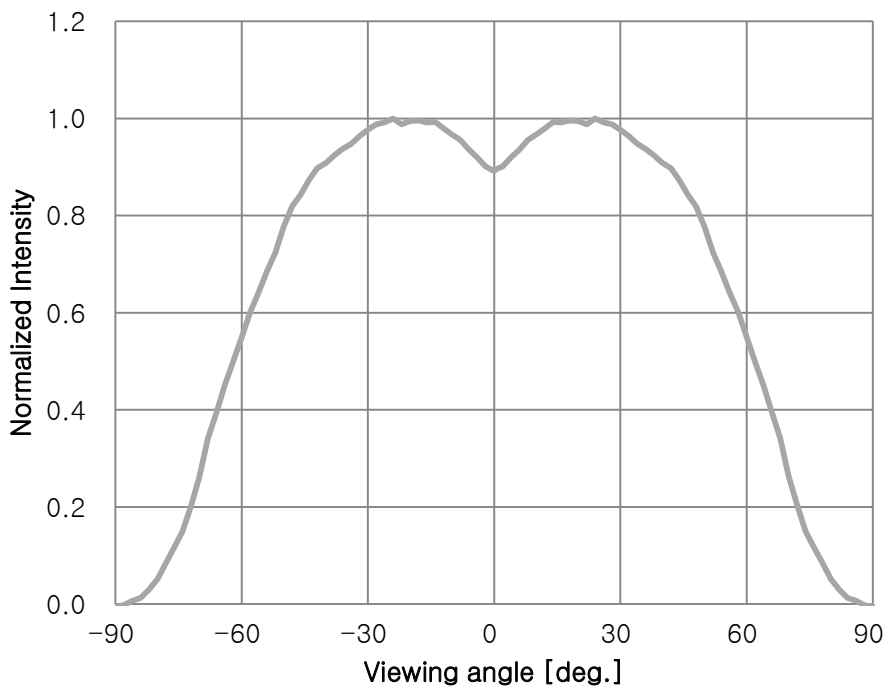


Fig 8. Typical Spatial Distribution,  $I_F=20\text{mA}$









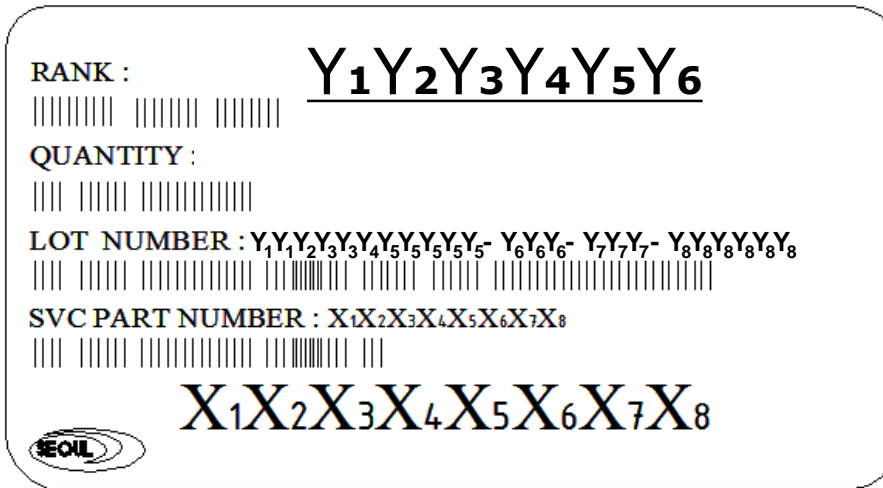








## Product Nomenclature



**Table 5. Part Numbering System: X<sub>1</sub>X<sub>2</sub>X<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>X<sub>7</sub>X<sub>8</sub>**

Part Number Code	Description	Part Number	Value
X <sub>1</sub>	Company	C	SVC
X <sub>2</sub>	UV LED	U	
X <sub>3</sub> X <sub>4</sub>	Wavelength	D7	Deep UV 275nm
X <sub>5</sub>	Package Series	G	CA3535
X <sub>6</sub>	Lens type	F	Flat window
X <sub>7</sub>	Chip Q'ty	1	1 chip
X <sub>8</sub>	Version	A	Ver0
		B	Ver1
		C	Ver2

**Table 6. Lot Numbering System: Y<sub>1</sub>Y<sub>2</sub>Y<sub>3</sub>Y<sub>4</sub>Y<sub>5</sub>Y<sub>5</sub>Y<sub>5</sub>- Y<sub>6</sub>Y<sub>6</sub>- Y<sub>7</sub>Y<sub>7</sub>- Y<sub>8</sub>Y<sub>8</sub>Y<sub>8</sub>Y<sub>8</sub>**

Lot Number Code	Description
Y <sub>1</sub>	Year
Y <sub>2</sub>	Month
Y <sub>3</sub>	Day
Y <sub>4</sub>	Production area
Y <sub>5</sub>	Mass order
Y <sub>6</sub>	Taping number
Y <sub>7</sub>	Reel number
Y <sub>8</sub>	Internal management number

Y1













## Company Information

### Published by

Seoul Viosys © 2013 All Rights Reserved.

### Company Information

Seoul Viosys ([www.seoulviosys.com](http://www.seoulviosys.com)) manufactures light emitting diodes (LEDs) with a full range of UV wavelengths from UVC to UVA (under 400nm) for Industrial Curing, Air/Water Purification, Disinfection and Home appliance.

The company is one of the world leading UV LED supplier, holding more than 4,000 patents globally, while offering various kinds of LED technologies and application-solutions in High power UV LED, UV sensor, UV LED Lamp and variety of UV LED sourced Applications.

The company's broad product portfolio includes hybrid modules for unique applications such as UV disinfection, deodorization, UV purification as well as customized modules for your Application.

### Legal Disclaimer

Information in this document is provided in connection with Seoul Viosys products. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Seoul Viosys hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party. The appearance and specifications of the product can be changed to improve the quality and/or performance without notice.

### Distributed by

Ohmstrasse 4 85716 Unterschleissheim Germany  
Tel.: +49 89 / 3214120 Fax: +49 89 / 32141211

[www.imm-photonics.de](http://www.imm-photonics.de)  
[sales@imm-photonics.de](mailto:sales@imm-photonics.de)