



**DoUVLEDs**

**DOWA SUPERB UV LED SOLUTIONS**

# MODEL xFxVL-1H331 series

## T05 Hemispherical Can Type



### Mechanical Specifications and Materials (Unit: mm)

#### Product ID

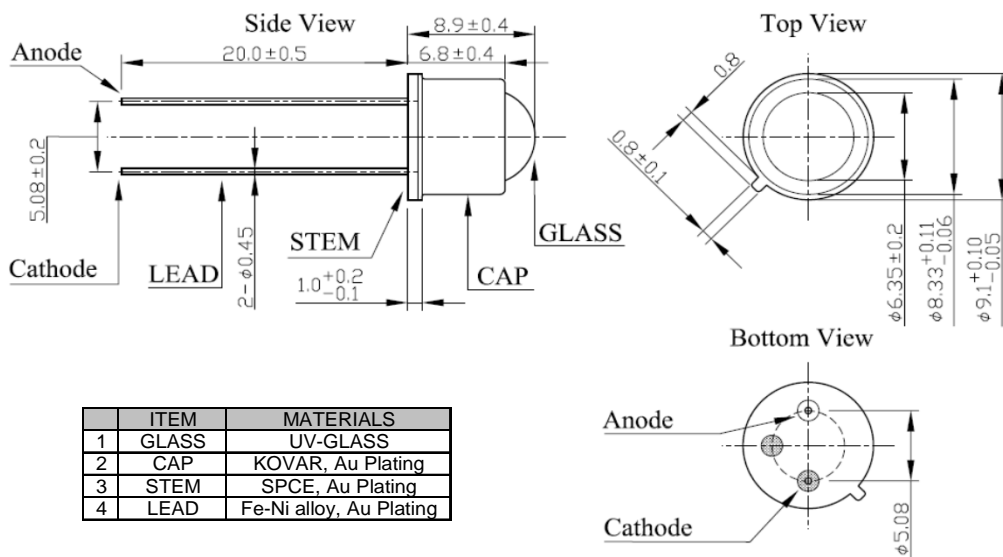
**265nm: DF7VL-1H331**

**280nm: DF8VL-1H331**

**310nm: UF1VL-1H331**

**325nm: UF3VL-1H331**

**340nm: UF4VL-1H331**



### Typical Optical-Electrical Characteristics (I<sub>F</sub>=20mA, T<sub>a</sub>=25°C)

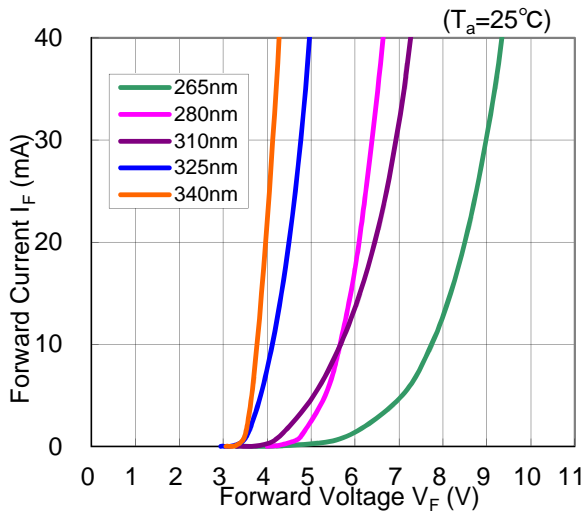
Item	Symbol	Unit	DF7VL	DF8VL	UF1VL	UF3VL	UF4VL
Peak Wavelength	$\lambda_p$	nm	265±5	280±10	310±5	325±5	340±5
Radiant Flux	P <sub>o</sub>	mW	0.5	0.9	0.4	0.7	0.8
Full Width at Half Maximum	$\Delta$	nm	13	12	15	11	9
Forward Voltage	V <sub>F</sub>	V	8-9	6.5	6-7	4.5	4.0
Response*	rise time	t <sub>r</sub>	ns	-	16	20	12
	fall time	t <sub>f</sub>	ns	-	8	9	8
Viewing Half Angle	2θ <sub>1/2</sub>	deg.	6	6	6	6	6

\*Test condition : Frequency=100kHz, duty=1%, I<sub>p</sub>=200mA

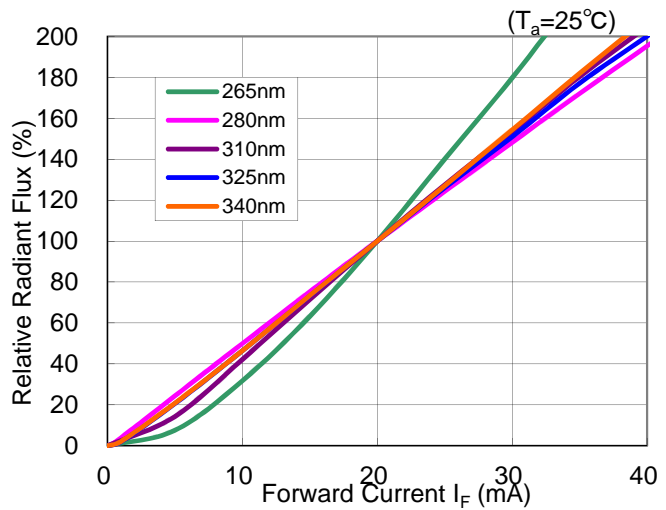
### Absolute Maximum Ratings

Item	Symbol	Unit	Ambient Temperature	
Forward Current	I <sub>Fmax</sub>	mA	40	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	°C	-30 ~ +80	
Storage Temperature	T <sub>STG</sub>	°C	-40 ~ +100	
Soldering Temperature	T <sub>SOL</sub>	°C	350 (within 3sec)	Manual soldering process
			250 (within 5sec)	Flow soldering process

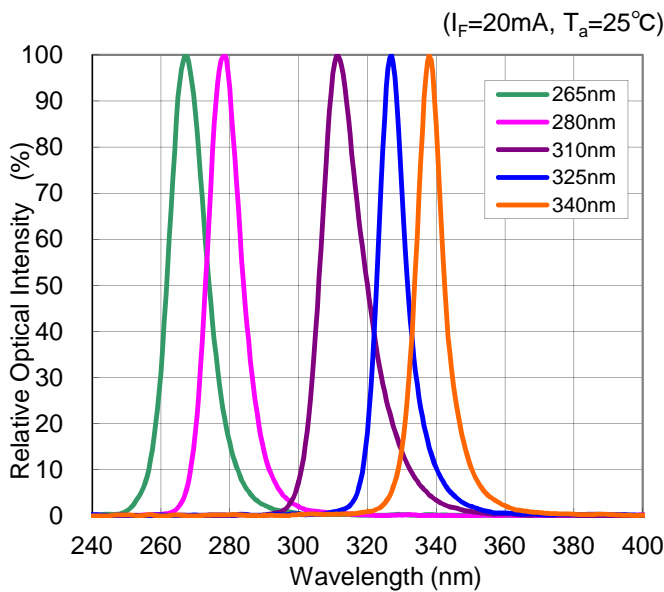
### Forward Voltage vs Forward Current



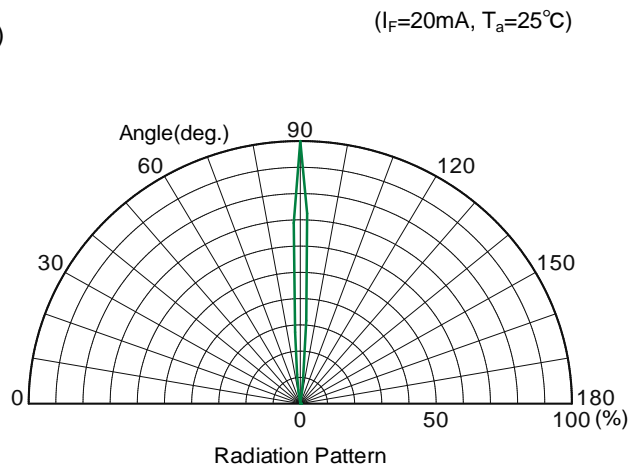
### Forward Current vs Radiant Flux



### Peak Wavelength vs Relative Intensity



### Radiation Pattern



### WARNING

- LEDs emit very strong UV radiation.
- Don't look directly into the LED light.  
UV radiation can harm your eyes.
- To prevent even inadequate exposure, wear protective eyewear.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.
- Specification and dimension are subject to change for improvement without notice.

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