

MODEL xFxVL-1H321 series

T046S Hemispherical Can Type



Mechanical Specifications and Materials (Unit: mm)

Product ID

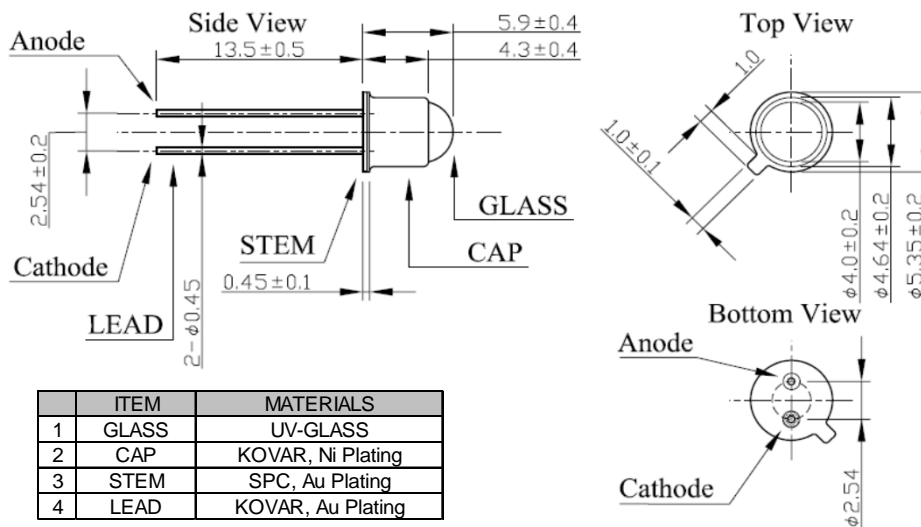
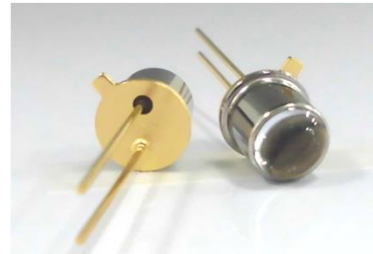
265nm: DF7VL-1H321

280nm: DF8VL-1H321

310nm: UF1VL-1H321

325nm: UF3VL-1H321

340nm: UF4VL-1H321



Typical Optical-Electrical Characteristics (I_F=20mA, T_a=25°C)

Item	Symbol	Unit	DF7VL	DF8VL	UF1VL	UF3VL	UF4VL
Peak Wavelength	λ_p	nm	265±5	280±10	310±5	325±5	340±5
Radiant Flux	P _o	mW	0.5	1.0	0.4	0.7	0.8
Full Width at Half Maximum	Δ	nm	13	12	15	11	9
Forward Voltage	V _F	V	8-9	6.5	6-7	4.5	4.0
Response*	rise time	t _r	ns	-	16	20	12
	fall time	t _f	ns	-	8	9	8
Viewing Half Angle	2θ _{1/2}	deg.	6	6	6	6	6

*Test condition : Frequency=100kHz, duty=1%, I_p=200mA

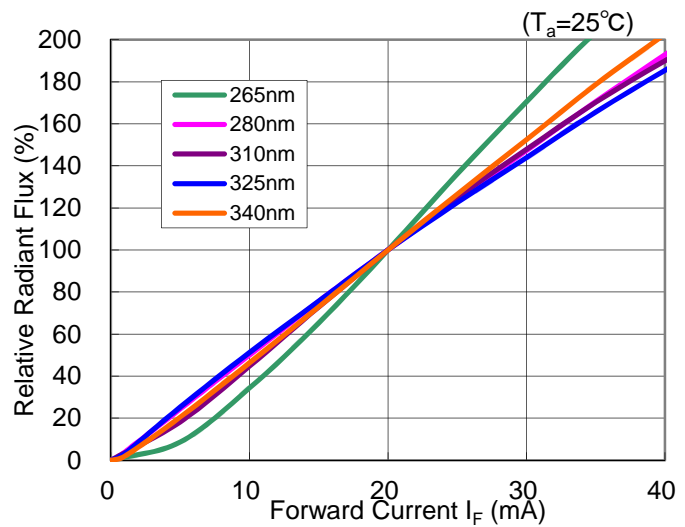
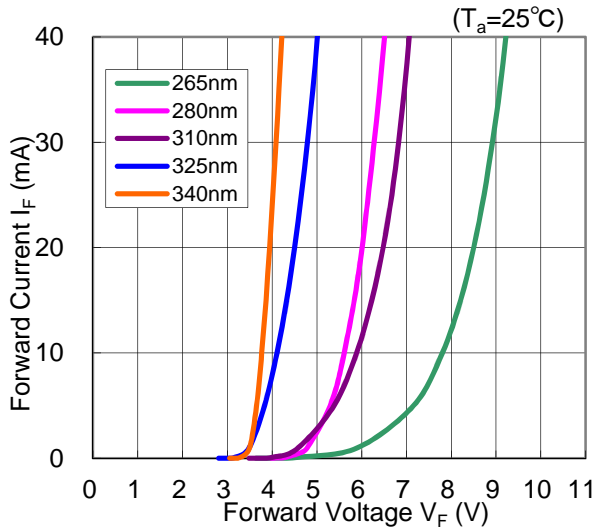
Absolute Maximum Ratings

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

DOWA SUPERB UV LED SOLUTIONS

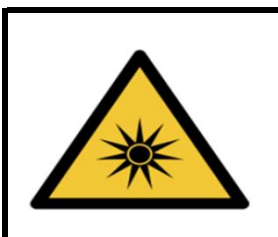
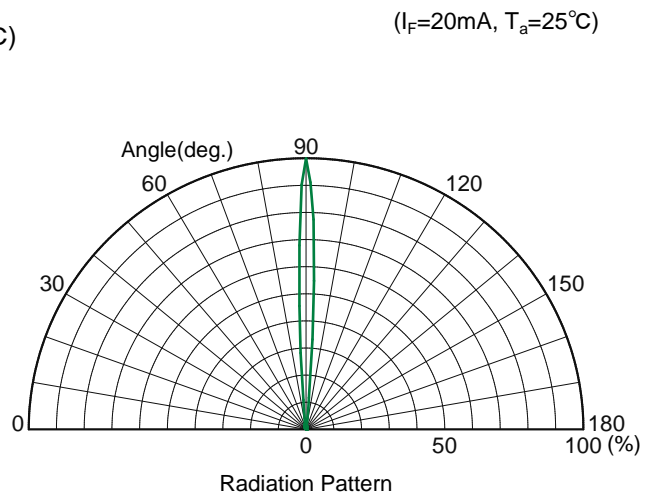
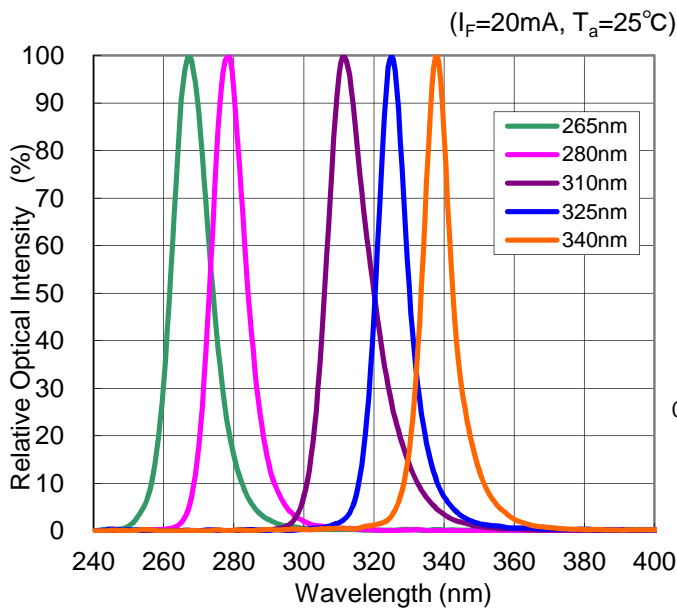
Forward Voltage vs Forward Current

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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