

MODEL xFxVL-1H331 series

T05 Hemispherical Can Type



Mechanical Specifications and Materials (Unit: mm)

Product ID

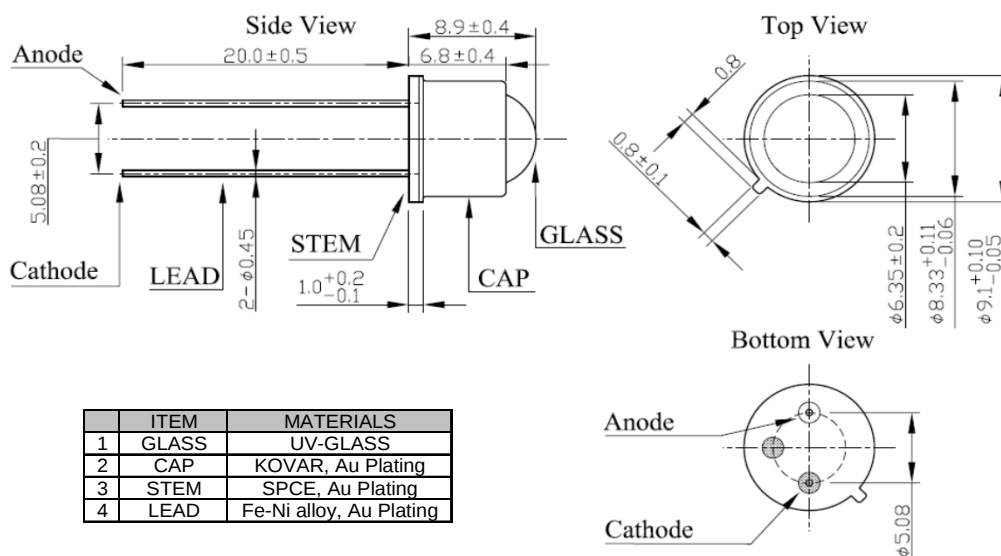
265nm: DF7VL-1H331

280nm: DF8VL-1H331

310nm: UF1VL-1H331

325nm: UF3VL-1H331

340nm: UF4VL-1H331



Typical Optical-Electrical Characteristics ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)

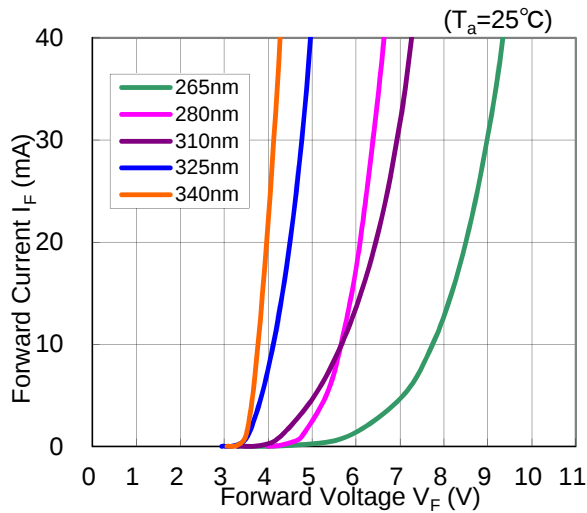
Item	Symbol	Unit	DF7VL	DF8VL	UF1VL	UF3VL	UF4VL
Peak Wavelength	λ_p	nm	265±5	280±10	310±5	325±5	340±5
Radiant Flux	P_o	mW	0.5	0.9	0.4	0.7	0.8
Full Width at Half Maximum	$\Delta\lambda$	nm	13	12	15	11	9
Forward Voltage	V_F	V	8-9	6.5	6-7	4.5	4.0
Response*	rise time	tr	ns	-	16	20	12
	fall time	tf	ns	-	8	9	8
Viewing Half Angle	$2\theta_{1/2}$	deg.	6	6	6	6	6

*Test condition : Frequency=100kHz, duty=1%, $I_p=200\text{mA}$

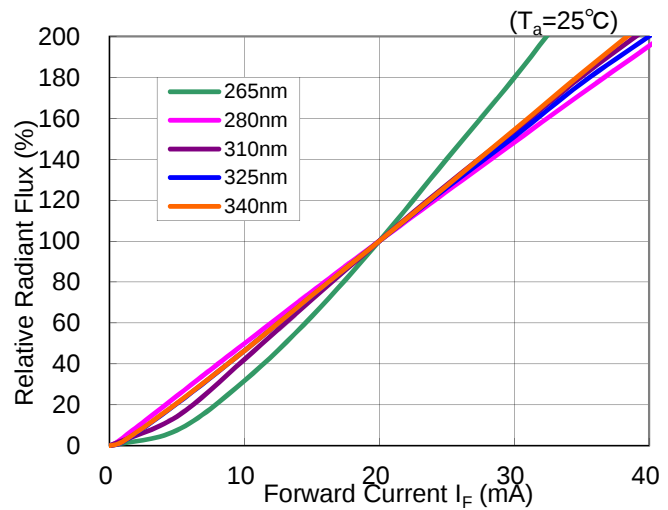
Absolute Maximum Ratings

Item	Symbol	Unit	Ambient Temperature	
Forward Current	I_{Fmax}	mA	40	$T_a=25^\circ\text{C}$
Operating Temperature	T_{OPR}	$^\circ\text{C}$	-30 ~ +80	
Storage Temperature	T_{STG}	$^\circ\text{C}$	-40 ~ +100	
Soldering Temperature	T_{SOL}	$^\circ\text{C}$	350 (within 3sec)	Manual soldering process
			250 (within 5sec)	Flow soldering process

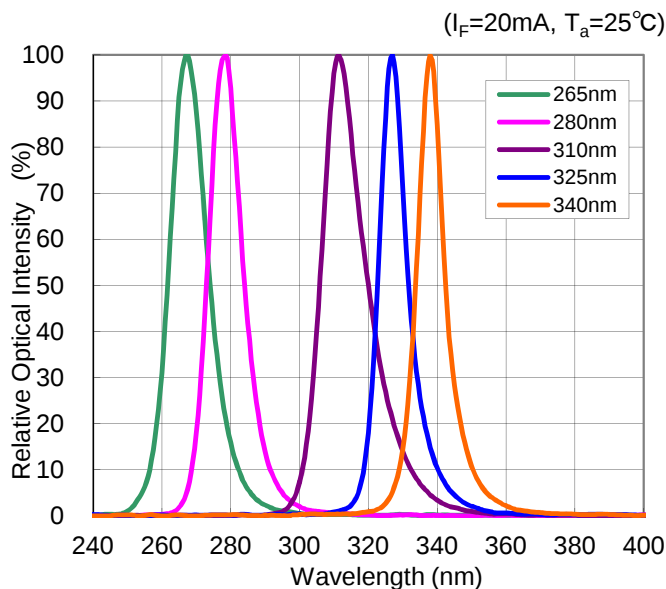
Forward Voltage vs Forward Current



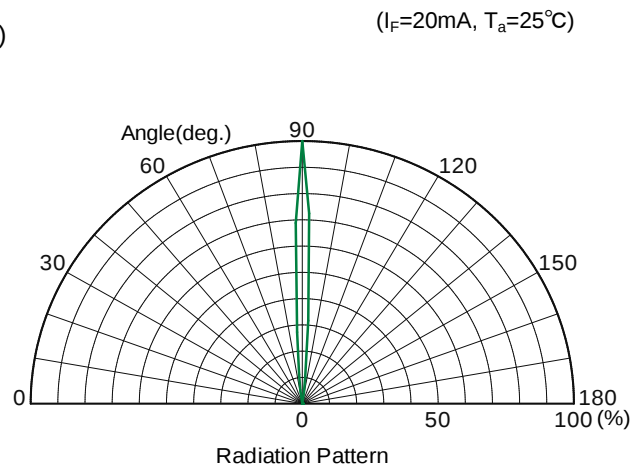
Forward Current vs Radiant Flux



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.