DOWA

DoUVLEDs

DOWA SUPERB UV LED SOLUTIONS

MODEL xFxVL-1H411 series

TO-18 Hemispherical Can Type

RoHS

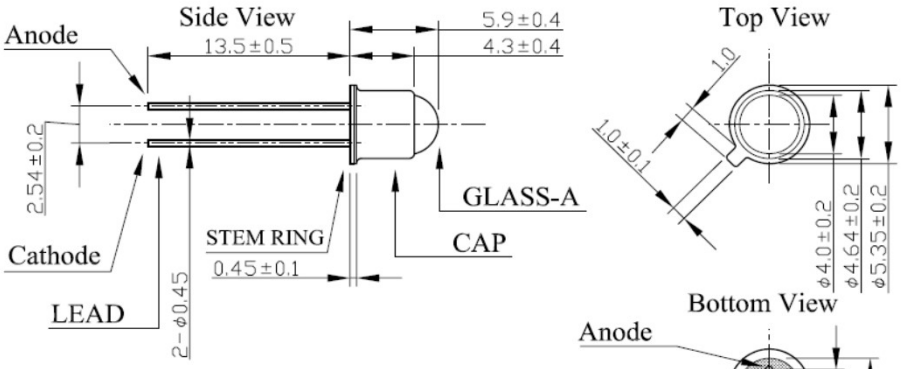
Mechanical Specifications and Materials (Unit: mm)

Product ID

310nm: UF1VL-1H411

325nm: UF3VL-1H411

340nm: UF4VL-1H411



	ITEM	MATERIALS
1	GLASS-A	UV-GLASS
2	CAP	KOVAR, Ni Plating
3	STEM RING	KOVAR, Au Plating
4	GLASS-B	Hard Glass (Black)
5	LEAD	KOVAR, Au Plating

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

Item		Symbol	Unit	UF1VL	UF3VL	UF4VL
Peak Wavelength	(*)	λ_p	nm	310±5	325±5	340±5
Radiant Flux	(**)	P_o	mW	1.3	1.4	1.3
Full Width at Half Maximum		$\triangle\lambda$	nm	15	11	9
Forward Voltage		V_F	V	5	4.5	4.0
Viewing Half Angle		$2\theta_{1/2}$	deg.	40	40	40

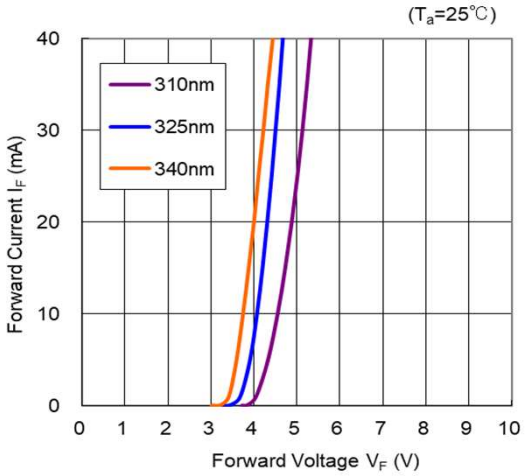
(*)Peak Wavelength Measurement tolerance is ±3nm. (**)Radiant Flux Measurement tolerance is ±10%.

Specification and dimension are subject to change for improvement without notice.

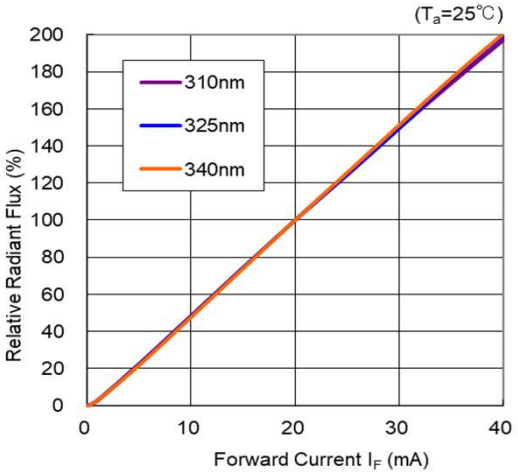
Absolute Maximum Ratings

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

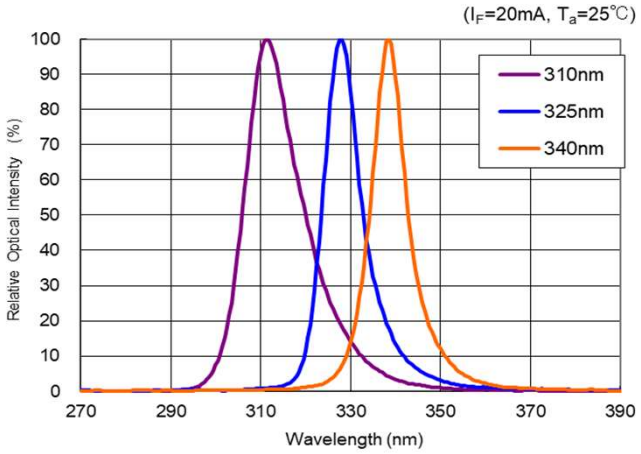
Forward Voltage vs Forward Current



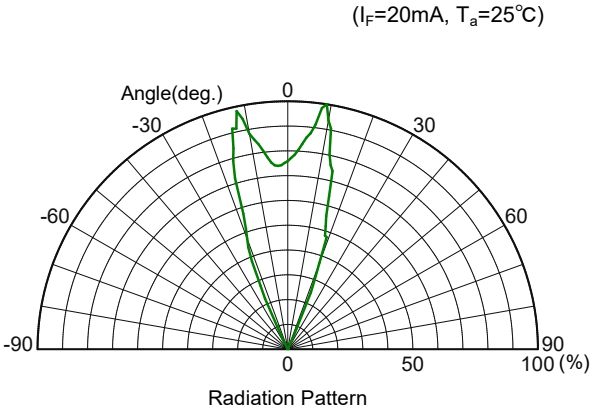
Forward Current vs Radiant Flux



Spectrum



Radiation Pattern



⚠ WARNING

- LEDs emit very strong UV radiation.
- Do not look at the LED light with the naked eye or irradiate the skin.
  UV radiation can harm your eyes and skin.
- To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.