

MODEL xFxVL-1F111 series

TO-18 Flat Can Type



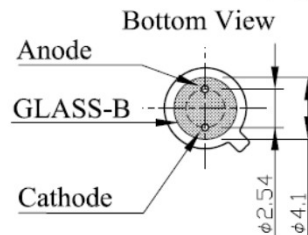
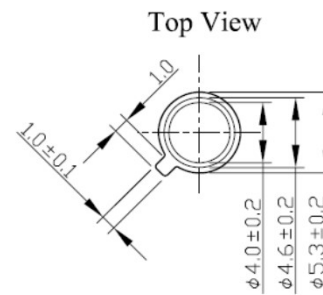
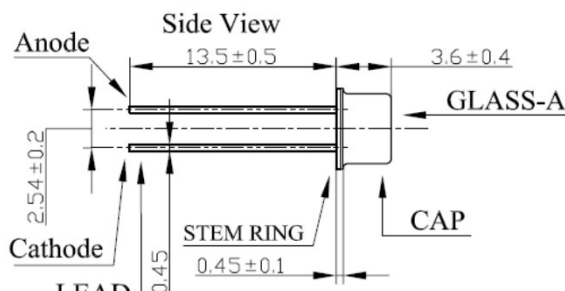
Mechanical Specifications and Materials (Unit: mm)

Product ID

310nm: UF1VL-1F111

325nm: UF3VL-1F111

340nm: UF4VL-1F111



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°C)

Item	Symbol	Unit	UF1VL	UF3VL	UF4VL
Peak Wavelength	(*) λ _p	nm	310±5	325±5	340±5
Radiant Flux	(**) P _o	mW	1.2	1.2	1.3
Full Width at Half Maximum	∠λ	nm	15	11	9
Forward Voltage	V _F	V	5	4.5	4.0
Viewing Half Angle	2θ _{1/2}	deg.	113	113	113

(*)Peak Wavelength Measurement tolerance is ±3nm.

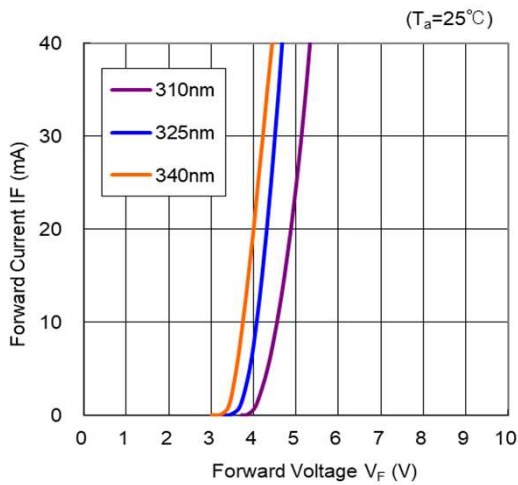
(**)Radiant Flux Measurement tolerance is ±10%.

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

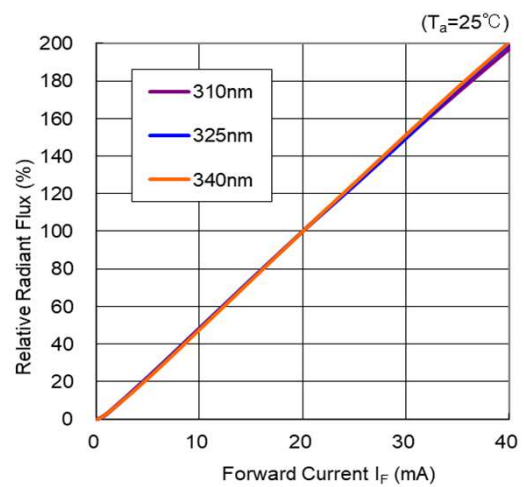
Absolute Maximum Ratings

Item	Symbol	Unit	Ambient Temperature	
Forward Current	I _{Fmax}	mA	40	T _a =25°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

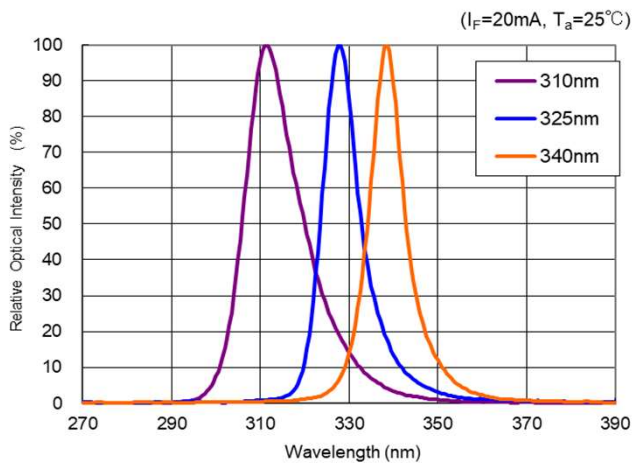
Forward Voltage vs Forward Current



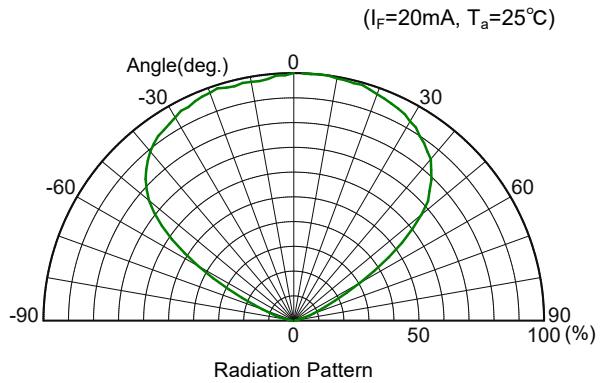
Forward Current vs Radiant Flux




Spectrum



Radiation Pattern



	<p>⚠ WARNING</p>
	<ul style="list-style-type: none"> • 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.