

Mechanical Specifications and Materials (Unit:mm)

Part Number

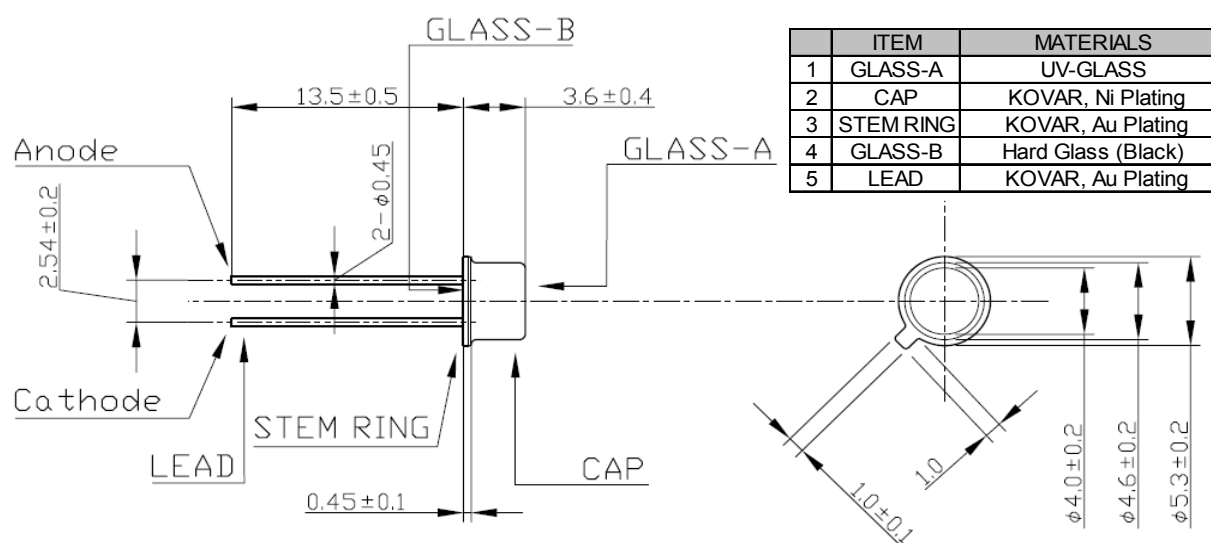
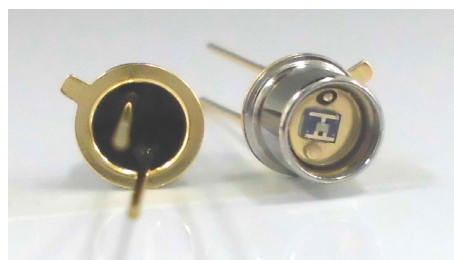
265nm: DF7VL-1F11

280nm: DF8VL-1F11

310nm: UF1VL-1F11

325nm: UF3VL-1F11

340nm: UF4VL-1F11



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

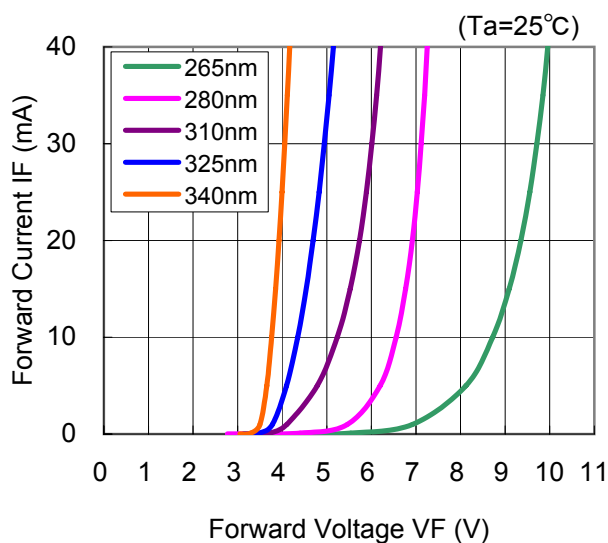
Item	Symbol	Unit	DF7VL	DF8VL	UF1VL	UF3VL	UF4VL
Peak Wavelength	λ_p	nm	265±5	280±5	310±5	325±5	340±5
Radiant Flux	P_o	mW	0.4	1.2	0.7	0.8	0.8
Full Width at Half Maximum	$\Delta\lambda$	nm	10	10	10	9	9
Forward Voltage	V_F	V	10	7	7	5	4
Response*	rise time	tr	ns	-	16	20	12
	fall time	tf	ns	-	8	9	8
Viewing Half Angle	$2\theta_{1/2}$	deg.	113	113	113	113	113

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

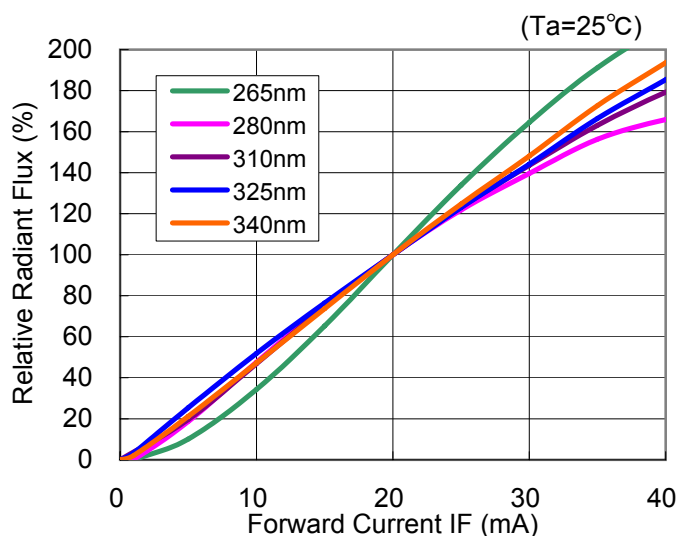
Absolute Maximum Ratings

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}	$^\circ\text{C}$	300	(within 5sec)

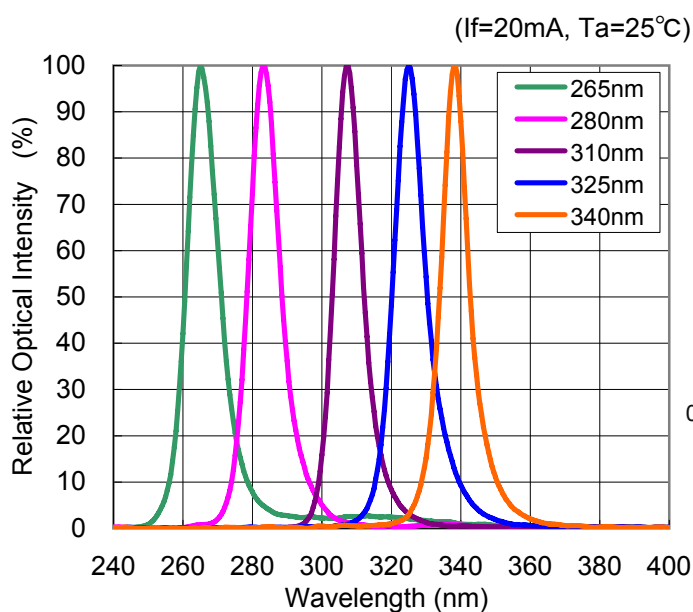
Forward Current vs Forward Voltage



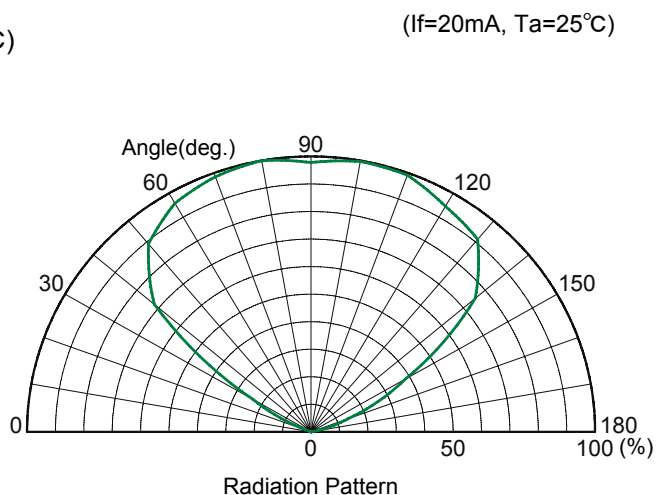
Forward Current vs Radiant Flux



Relative Intensity vs Peak Wavelength



Radiation Pattern



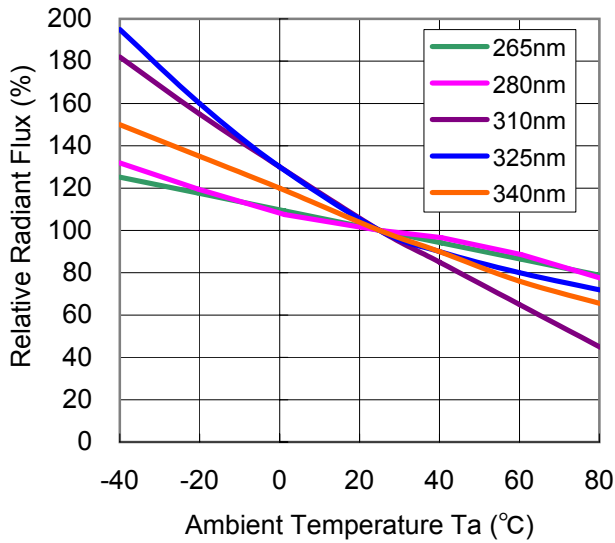


CAUTION

- 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.

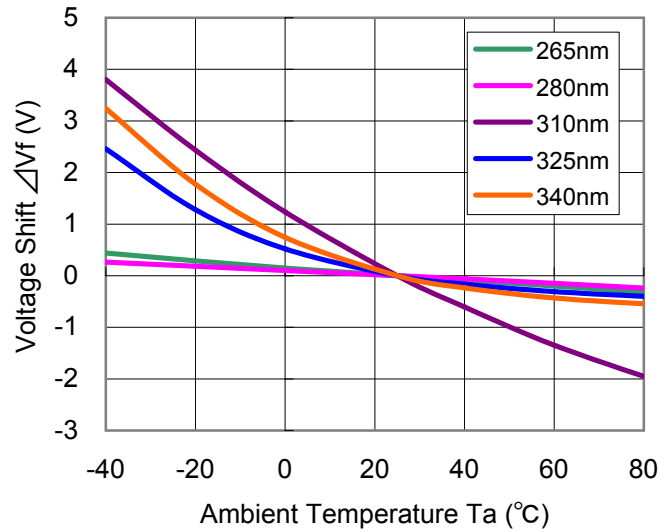
Radiant Flux vs Ambient Temperature

If=20mA



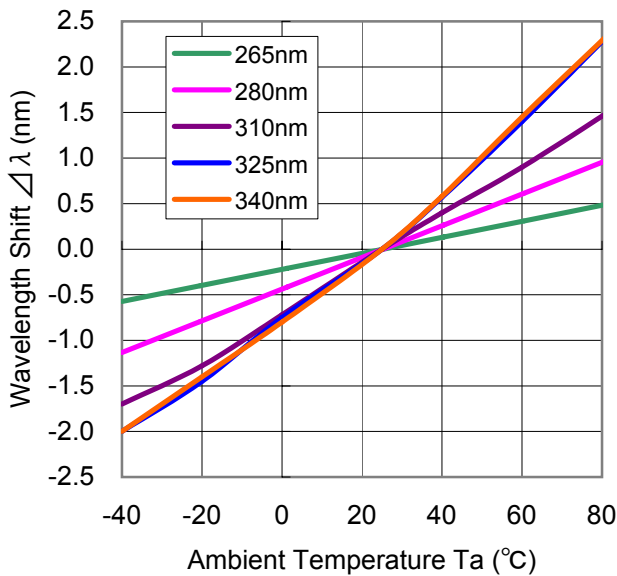
Voltage Shift vs Ambient Temperature

If=20mA

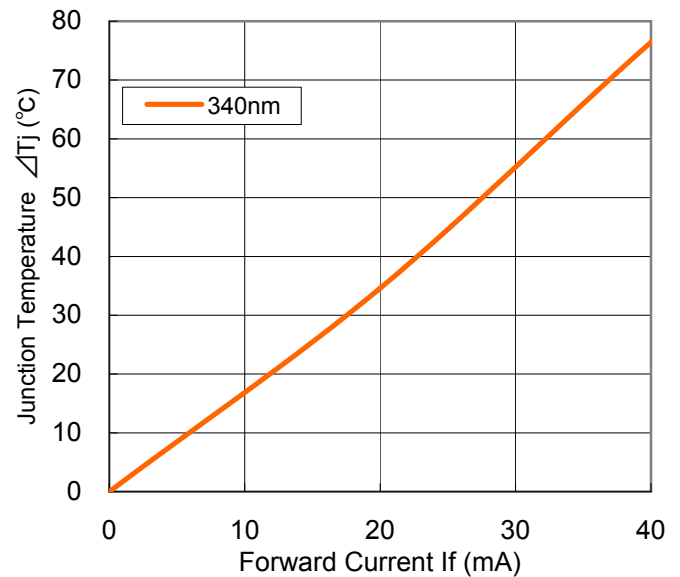


Wavelength Shift vs Ambient Temperature

If=20mA



Junction Temperature vs Forward Current



Issued Jul. 2013.

SPEC information (included design, dimension, and typical data) would be changed without prior notice.

Lead (Pb) Free Product – RoHS Compliant