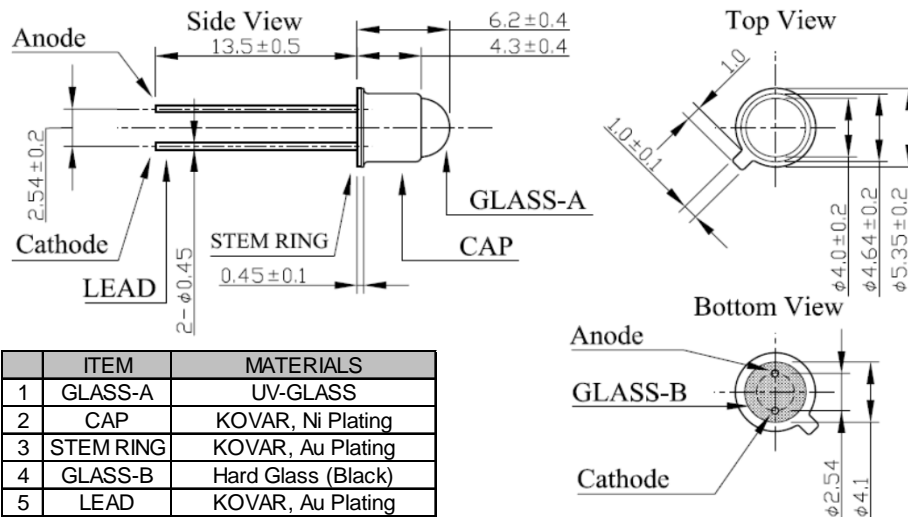


MODEL xFxVL-1H211 series**T018 Hemispherical Can Type****Mechanical Specifications and Materials (Unit: mm)****Product ID****280nm: DF8VL-1H211****310nm: UF1VL-1H211****325nm: UF3VL-1H211****340nm: UF4VL-1H211****Typical Optical-Electrical Characteristics ($I_F=20\text{mA}$, $T_a=25^\circ\text{C}$)**

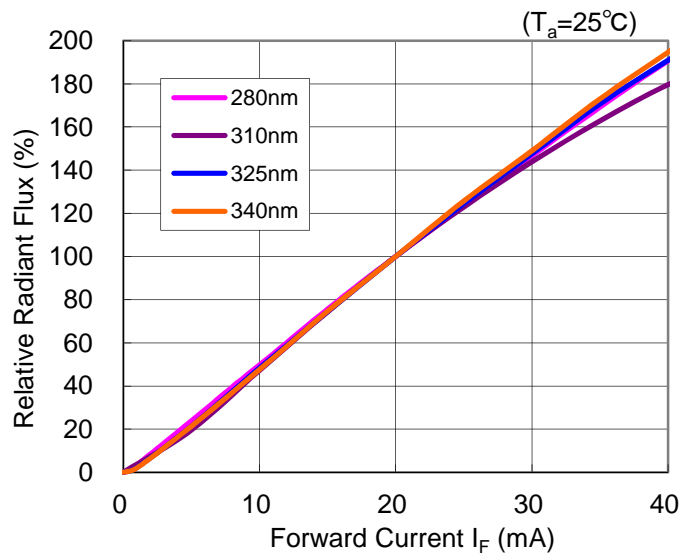
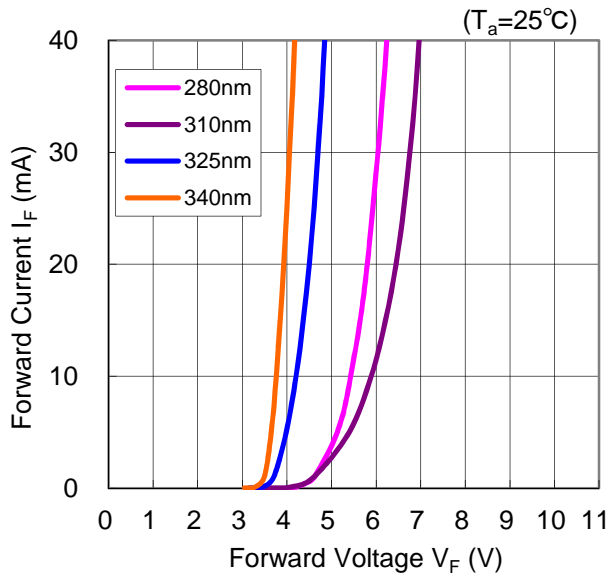
Item	Symbol	Unit	DF8VL	UF1VL	UF3VL	UF4VL	
Peak Wavelength	ρ	nm	280±10	310±5	325±5	340±5	
Radiant Flux	P_o	mW	1.3	0.6	1.1	1.1	
Full Width at Half Maximum	Δ	nm	12	15	11	9	
Forward Voltage	V_F	V	6.5	6-7	4.5	4.0	
Response*	rise time	t_r	ns	-	16	20	12
	fall time	t_f	ns	-	8	9	8
Viewing Half Angle	$2\theta_{1/2}$	deg.	24	24	24	24	

*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}	$^\circ\text{C}$	350 (within 3sec)	Manual soldering process
			250 (within 5sec)	Flow soldering process

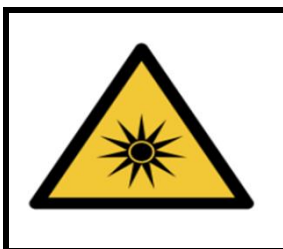
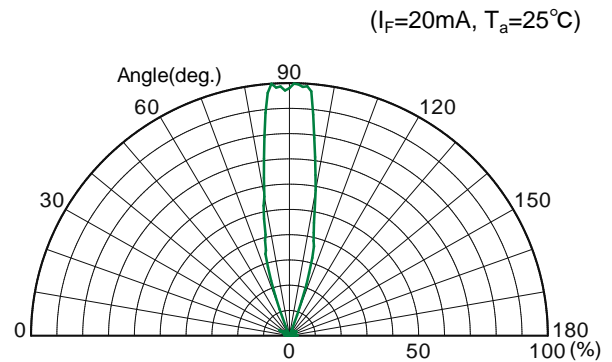
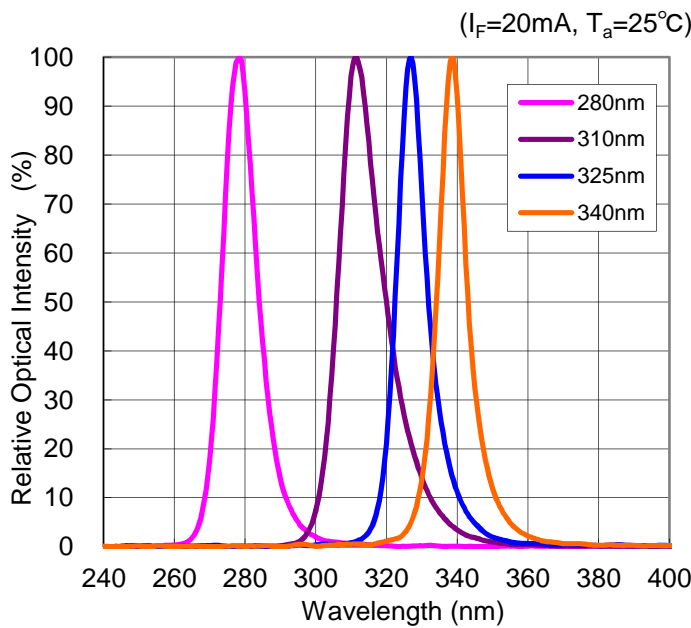
Forward Voltage vs Forward Current

Forward Current vs Radiant Flux



Peak Wavelength vs Relative Intensity

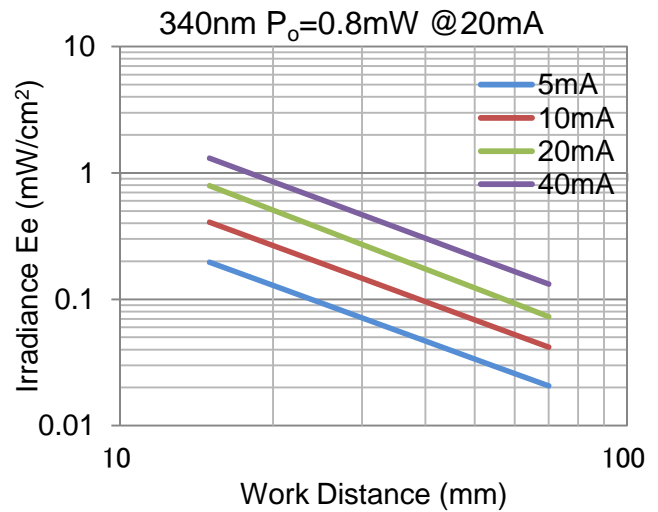
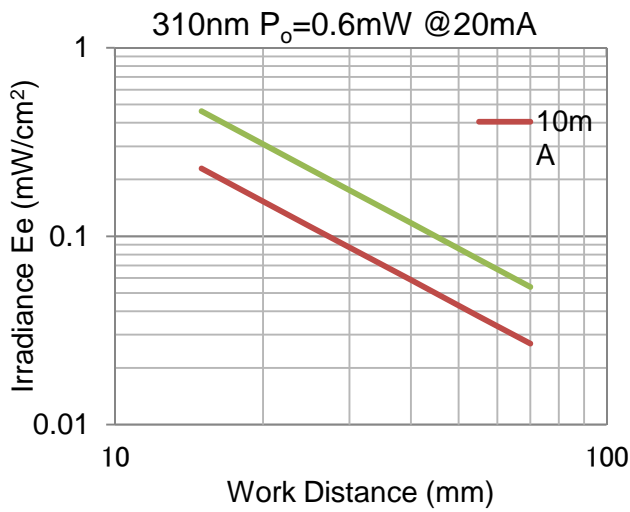
Radiation Pattern



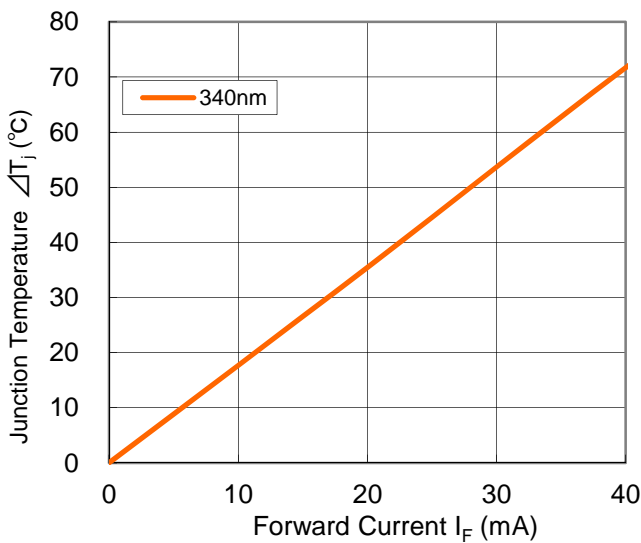
WARNING

- 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.

Irradiance vs Work Distance



Forward Current vs Junction Temperature



[Japan] DOWA Electronics Materials Co., Ltd
 Akihabara UDX Bldg. 4-14-1 Sotokanda, Chiyoda-ku, Tokyo 101-0021, Japan / Phone: +81-3-6847-1253
[USA] DOWA International Corp. San Jose office
 4320 Stevens Creek Blvd. Suite 125, San Jose CA 95129, USA / Phone: +1-408-236-7560
[EU] DOWA HD Europe GmbH
 Ostendstrasse 196, D-90482, Nurnberg, Germany / Phone: +49-911-56989-320