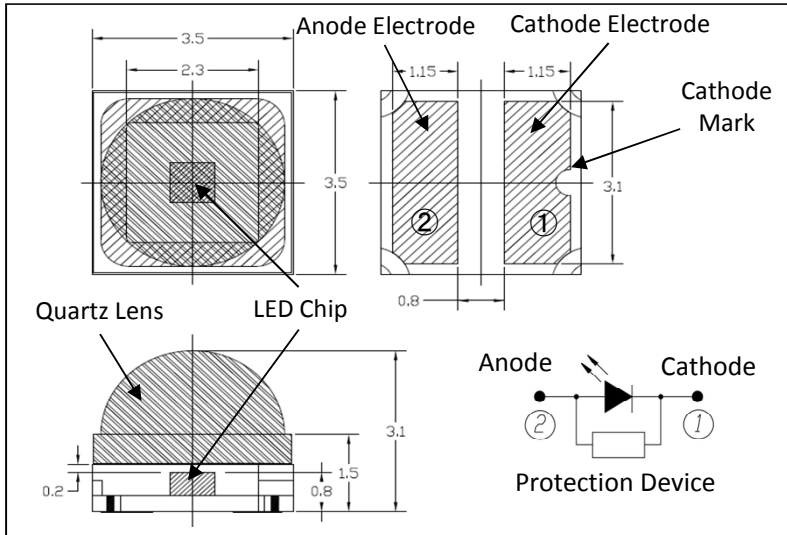


## MODEL xFxLU-0GD01 series

### 3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type

#### Mechanical Specifications and Materials (Unit: mm)



#### Product ID

275nm: DF7LU-0GD01

280nm: DF8LU-0GD01

310nm: UF1LU-0GD01

325nm: UF3LU-0GD01

340nm: UF4LU-0GD01

#### Typical Optical-Electrical Characteristics

$I_F=350mA$ ,  $T_a=25^\circ C$

Item	Symbol	Unit	DF7LU-0GD01			DF8LU-0GD01			UF1LU-0GD01			UF3LU-0GD01			UF4LU-0GD01		
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Peak Wavelength(*)	$\lambda_p$	nm	270	275	280	275	280	285	303	308	313	320	325	330	335	340	345
Radiant Flux(**)	$P_o$	mW	18	26	35	18	26	35	22	35	44	22	32	40	22	32	40
Full Width at Half Maximum	$\Delta\lambda$	nm	-	11	-	-	11	-	-	14	-	-	12	-	-	10	-
Forward voltage	$V_F$	V	-	5.4	-	-	5.4	-	-	5.5	-	-	5.2	-	-	5.0	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	35	-	-	35	-	-	35	-	-	35	-	-	35	-

$I_F=600mA$ ,  $T_a=25^\circ C$

Item	Symbol	Unit	DF7LU-0GD01			DF8LU-0GD01			UF1LU-0GD01			UF3LU-0GD01			UF4LU-0GD01		
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Peak Wavelength(*)	$\lambda_p$	nm	-	(275)	-	-	(280)	-	-	(308)	-	-	(325)	-	-	(340)	-
Radiant Flux(**)	$P_o$	mW	-	40	-	-	40	-	-	53	-	-	49	-	-	53	-
Full Width at Half Maximum	$\Delta\lambda$	nm	-	(12)	-	-	(12)	-	-	(15)	-	-	(12)	-	-	(10)	-
Forward voltage	$V_F$	V	-	6.0	-	-	6.0	-	-	6.0	-	-	5.5	-	-	5.2	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	35	-	-	35	-	-	35	-	-	35	-	-	35	-

(\*)Peak Wavelength Measurement tolerance is  $\pm 3nm$ .

(\*\*)Radiant Flux Measurement tolerance is  $\pm 10\%$ .

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

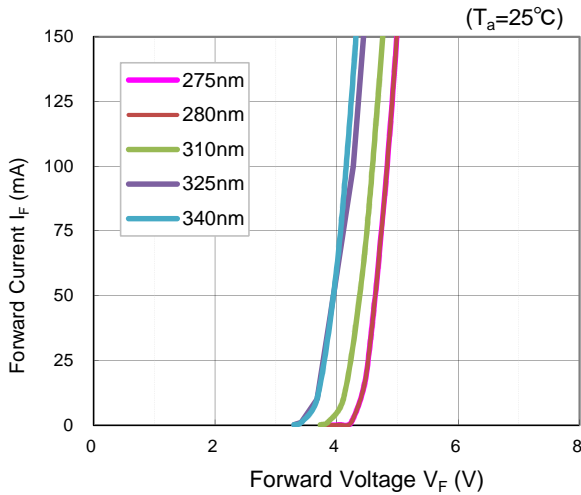
⚠ WARNING

- 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.

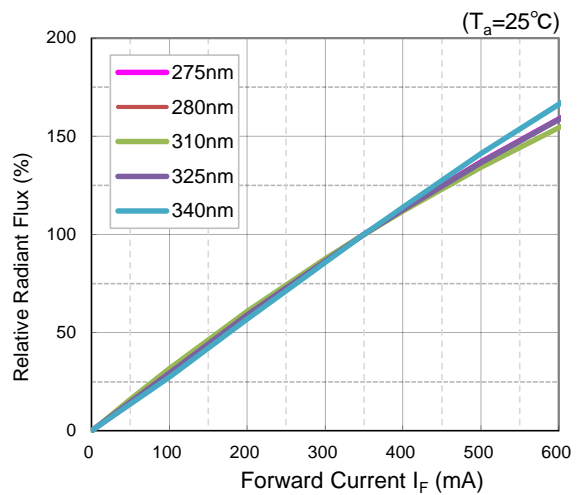
# MODEL xFxLU-0GD01 series

## 3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type

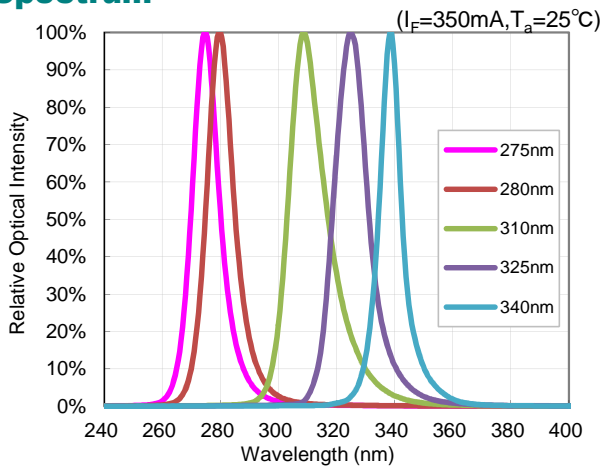
### Forward Voltage vs Forward Current



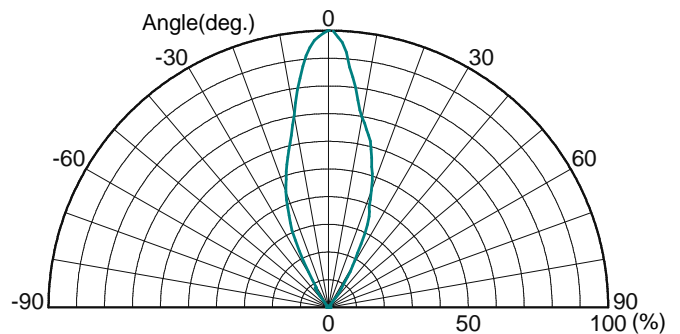
### Forward Current vs Radiant Flux



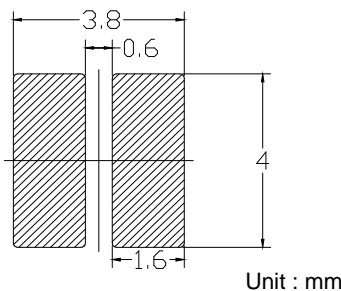
### Spectrum



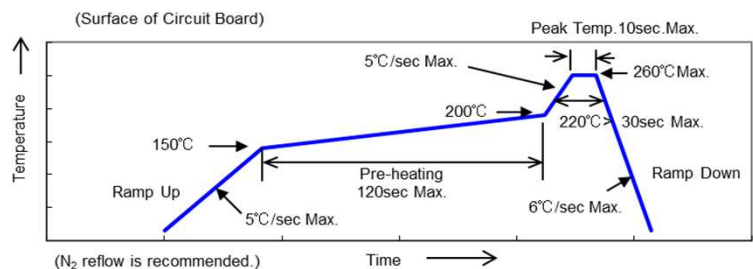
### Radiation Pattern



### Recommended solder pad



### Reflow soldering profile



[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