DOWA

TENTATIVE

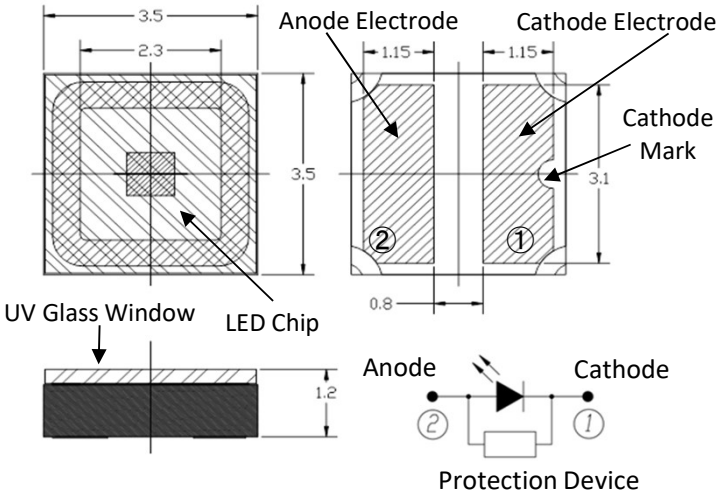
DoUVLEDs SMD

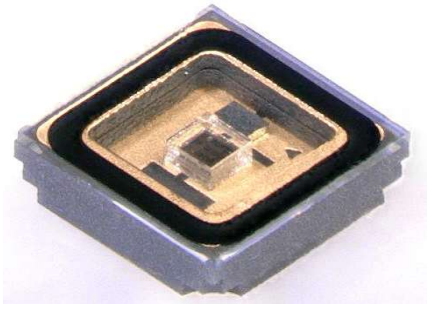
DOWA SUPERB UV LED SOLUTIONS

MODEL 308-FG-02-U05

3.5 x 3.5mm Metal Sealed SMD Flat Top Type

Mechanical Specifications and Materials (Unit: mm)





Typical Optical-Electrical Characteristics

(I_F=100mA, T_a=25°C)

Item	Symbol	Unit	308-FG-02-U05		
			Min	Typ	Max
Peak Wavelength(*)	λ_p	nm	303	308	313
Radiant Flux(**)	P_o	mW	-	19	-
Full Width at Half Maximum	◿λ	nm	-	15	-
Forward voltage	V_F	V	-	5.4	-

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

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

(***)Junction-ambient

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

Binning is available.

⚠ 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.**

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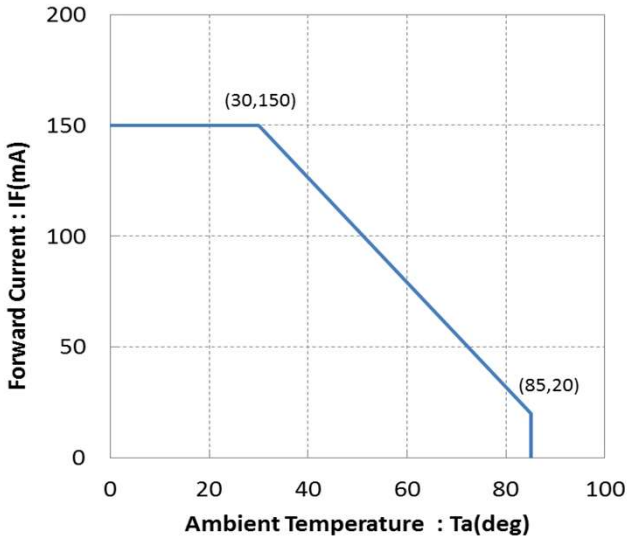
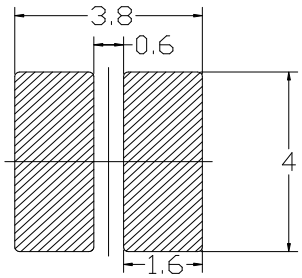
Absolute Maximum Ratings

Item	Symbol	Unit	Value
Forward Current	I_F	mA	150
Junction Temperature	T_J	℃	90
Operating Temperature	T_{OPR}	℃	-30 ～ +85
Storage Temperature	T_{STR}	℃	-40 ～ +85 (No condensation)

Derating Curve

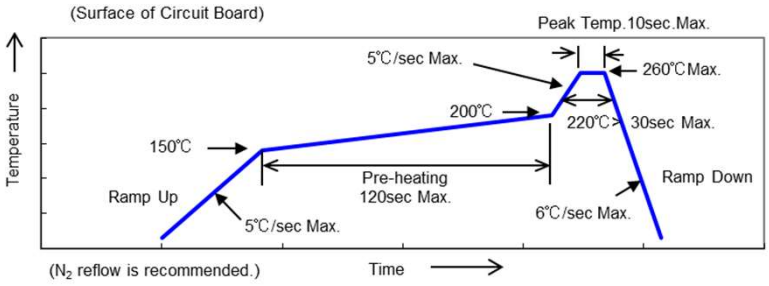


Recommended solder pad



Unit : mm

Reflow soldering profile



This soldering profile is according to JEDEC-J-STD-020D.

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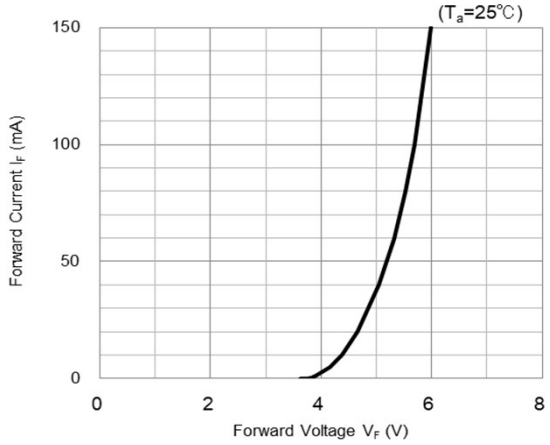
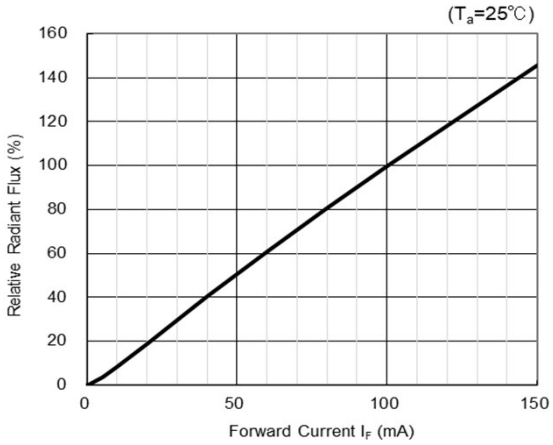
Reference Data(1)

Forward Voltage vs Forward Current



Forward Current vs Radiant Flux



Spectrum