

DOUVLEDS

DOWA SUPERB UV LED SOLUTIONS

Model 310-SF-02 series Bare Die (Flip chip form, AuSn Pad)

Typical Optical-Electrical Characteristics

 $(I_E=20mA, T_a=25^{\circ}C)$

Ci v a							
Item	Symbol	Unit	310-SF-02-C				
			Min	Тур	Max		
Peak Wavelength	λ_{p}	nm	305	310	315		
Radiant Flux	Po	mW	-	4.8	-		
Full Width at Half Maximum	⊿λ	nm	-	15	-		
Forward Voltage	V_{F}	V	-	5.0	-		

 $(I_{E}=50 \text{mA}, T_{a}=25 ^{\circ}\text{C})$

Item	Symbol	Unit	310-SF-02-C		
			Min	Тур	Max
Peak Wavelength	λ_{p}	nm	305	310	315
Radiant Flux	P _o	mW	-	12	-
Full Width at Half Maximum	⊿λ	nm	1	15	-
Forward Voltage	V _F	V	-	5.6	-

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

Binning is available.

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

Absolute Maximum Ratings

ltem	Symbol	Unit	Value
Forward Current	IF	mΑ	50
Junction Temperature	T_J	٥	90
Operating Temperature	T_{OPR}	သိ	-30 ~ +85
Storage Temperature	T _{STR}	°C	-40 ~ +85 (No condensation)

4 WARNING



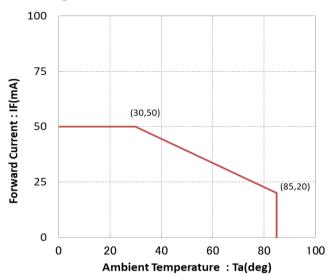
- LEDs emit very strong UV radiation.
- Do not look at the LED light with the naked eye or irradiate the skin.
- UV radiation can harm your eyes and skin.
- To prevent UV radiation exposure, wear protective eyewear and protective equipment.
- If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.
- Keep out of reach of children.

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



Model 310-SF-02 series Bare Die (Flip chip form, AuSn Pad)

Derating Curve

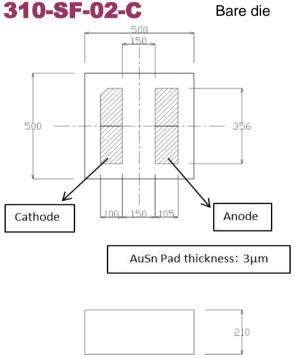


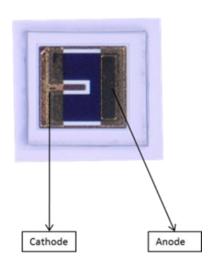
Notes:

Maximum ratings and derating curve strongly depend on assembly materials.

The above ratings and derating curve were determined using AIN submount ,AI substrate and heatsink. Ratings may be different for other materials and environment.

Product ID, Physical dimensions and Sample photo





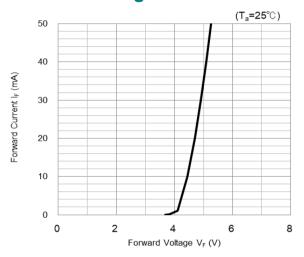




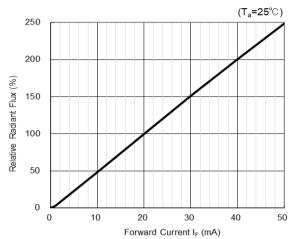
Model 310-SF-02 series Bare Die (Flip chip form, AuSn Pad)

Reference Data(1)

Forward Voltage vs Forward Current



Forward Current vs Radiated Flux



Spectrum

