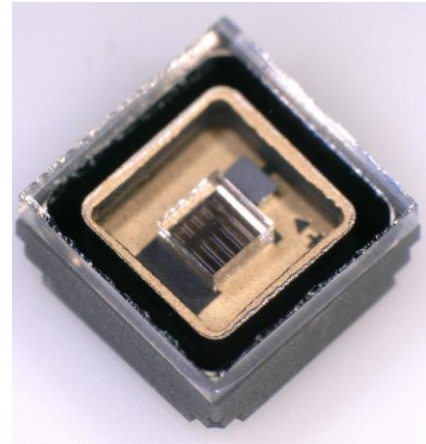
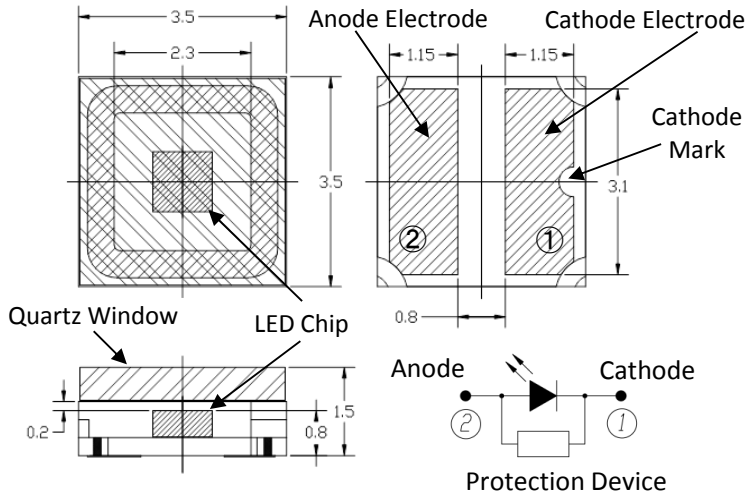


MODEL xxx-FL-01-U04

3.5 x 3.5mm Metal Sealed SMD Flat Top Type

Mechanical Specifications and Materials (Unit: mm)



Typical Optical-Electrical Characteristics

($I_F=350\text{mA}$, $T_a=25^\circ\text{C}$)

Item	Symbol	Unit	265-FL-01			275-FL-01			280-FL-01			295-FL-01		
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Peak Wavelength(*)	λ_p	nm	260	265	270	270	275	280	275	280	285	290	295	300
Radiant Flux(**)	P_o	mW	10	18	-	25	35	-	25	35	-	25	35	-
Full Width at Half Maximum	$\Delta\lambda$	nm	-	11	15	-	11	15	-	11	15	-	12	15
Forward voltage	V_F	V	-	5.8	-	-	5.4	-	-	5.4	-	-	5.8	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	120	-	-	120	-	-	120	-	-	120	-
Thermal Resistance(***)	R_{th}	K/W	-	15	-	-	15	-	-	15	-	-	15	-

Item	Symbol	Unit	308-FL-01			325-FL-01			340-FL-01		
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Peak Wavelength(*)	λ_p	nm	303	308	313	320	325	330	335	340	345
Radiant Flux(**)	P_o	mW	40	50	-	30	37	-	30	37	-
Full Width at Half Maximum	$\Delta\lambda$	nm	-	15	20	-	12	15	-	12	15
Forward voltage	V_F	V	-	5.0	-	-	5.2	-	-	5.2	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	120	-	-	120	-	-	120	-
Thermal Resistance(***)	R_{th}	K/W	-	15	-	-	15	-	-	15	-

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

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

(***)Junction-ambient

Binning is available.

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

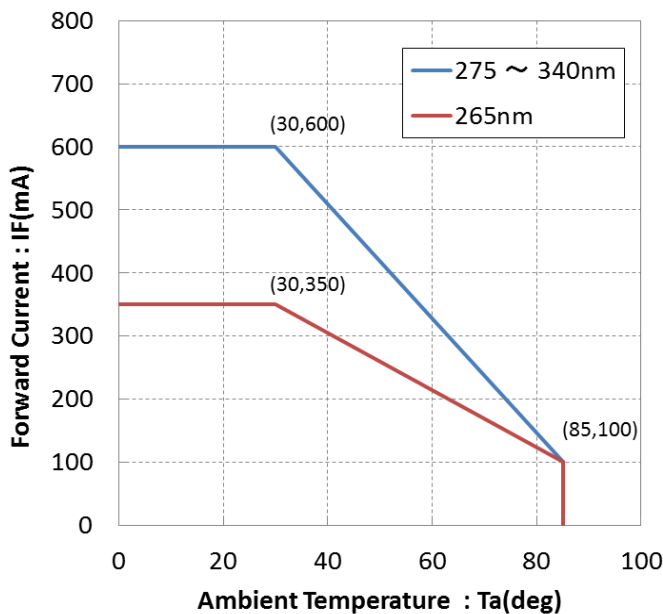
MODEL xxx-FL-01-U04

3.5 x 3.5mm Metal Sealed SMD Flat Top Type

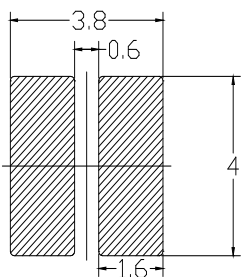
Absolute Maximum Ratings

Item	Symbol	Unit	Value
Forward Current	IF	mA	600(275~340nm),350(265nm)
Junction Temperature	T _J	°C	100
Operating Temperature	T _{OPR}	°C	-30 ~ +85
Storage Temperature	T _{STR}	°C	-40 ~ +85 (No condensation)

Derating Curve

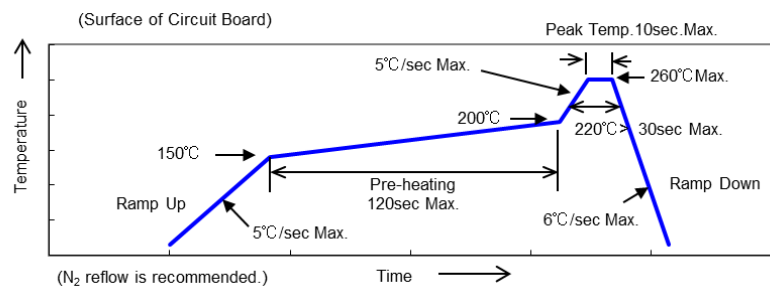


Recommended solder pad



Unit : mm

Reflow soldering profile



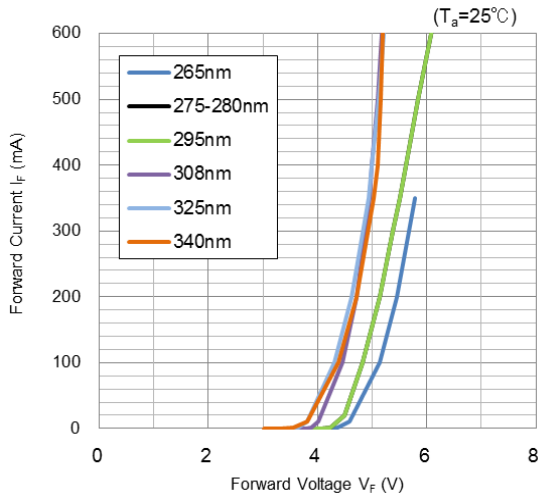
This soldering profile is according to JEDEC-J-STD-020D.

MODEL xxx-FL-01-U04

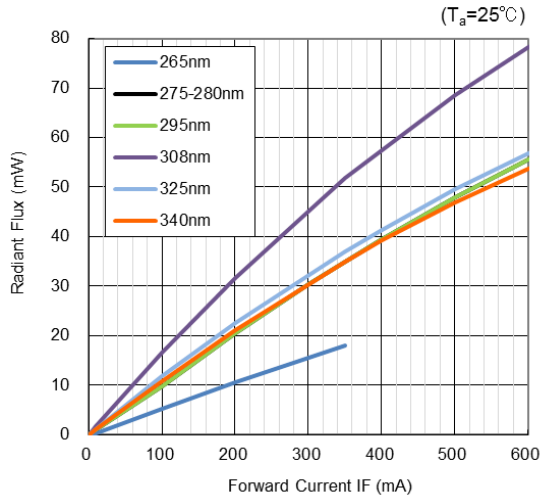
3.5 x 3.5mm Metal Sealed SMD Flat Top Type

Reference Data(1)

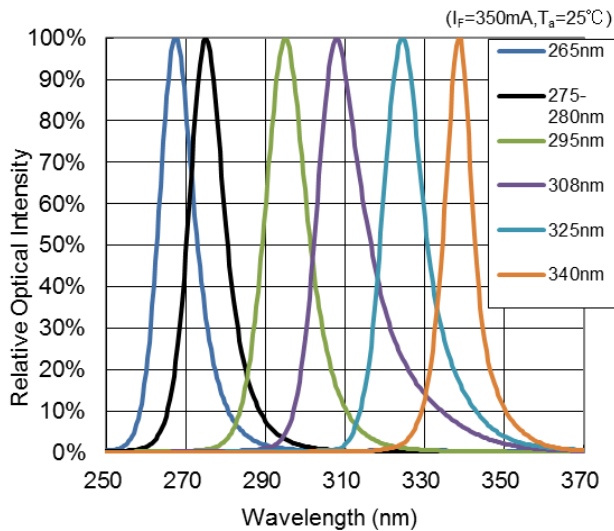
Forward Voltage vs Forward Current



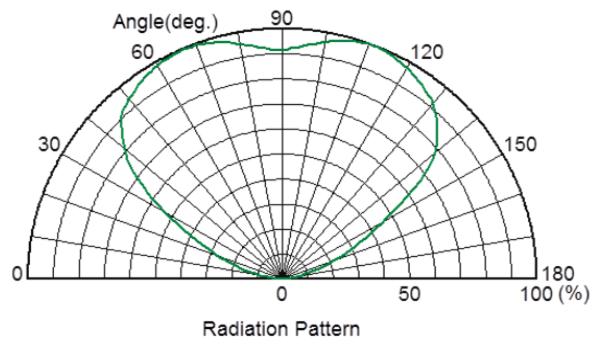
Forward Current vs Radiant Flux



Spectrum



Radiation Pattern



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.