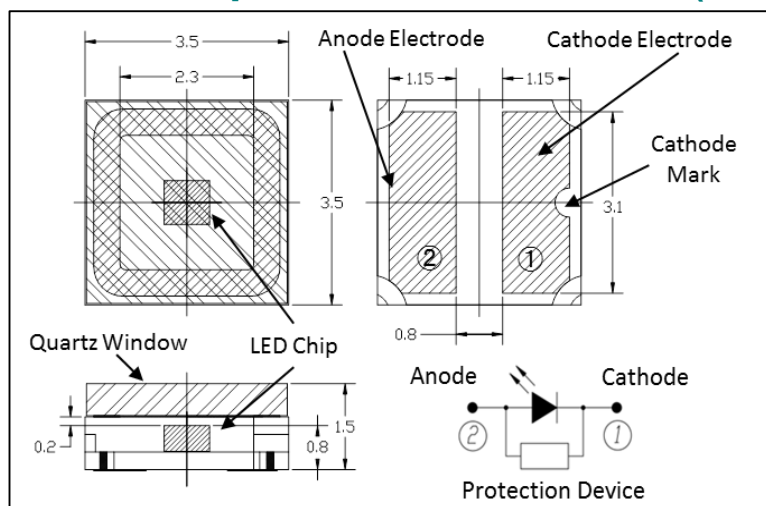


MODEL xxx-FD-01-U04 series**3.5 x 3.5mm Metal Sealed SMD Flat Top Type****Mechanical Specifications and Materials (Unit: mm)****Typical Optical-Electrical Characteristics ($I_F=100\text{mA}$, $T_a=25^\circ\text{C}$)**

Item	Symbol	Unit	265-FD-01			275-FD-01			280-FD-01		
			Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
Peak Wavelength(*)	λ_p	nm	260	265	270	270	275	280	275	280	285
Radiant Flux(**)	P_o	mW	3	5	10	7	12	18	7	12	18
Full Width at Half Maximum	$\Delta\lambda$	nm	-	11	-	-	11	-	-	11	-
Forward voltage	V_F	V	-	5.2	-	-	5.2	-	-	5.2	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	120	-	-	120	-	-	120	-
Thermal Resistance(***)	Rth	K/W	-	20	-	-	20	-	-	20	-

Item	Symbol	Unit	308-FD-01			325-FD-01			340-FD-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	7	12	18	7	12	18	7	12	18
Full Width at Half Maximum	$\Delta\lambda$	nm	-	15	-	-	13	-	-	9	-
Forward voltage	V_F	V	-	5.3	-	-	4.7	-	-	4.5	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	120	-	-	120	-	-	120	-
Thermal Resistance(***)	Rth	K/W	-	20	-	-	20	-	-	20	-

(*)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.

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

xxx-FD-01-U04, Rev.1.0

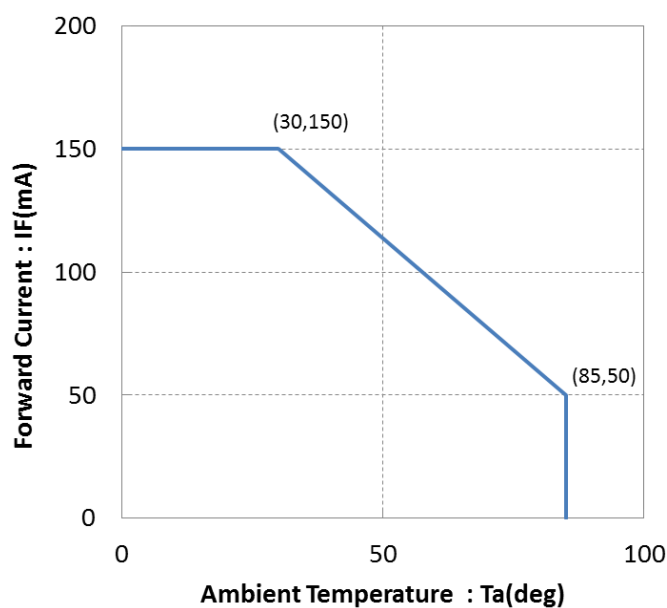
MODEL xxx-FD-01-U04 series

3.5 x 3.5mm Metal Sealed SMD Flat Top Type

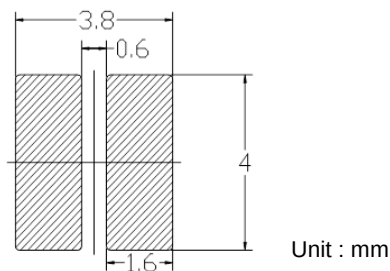
Absolute Maximum Ratings

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

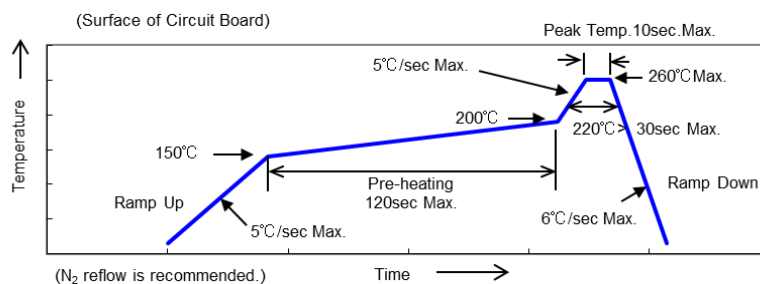
Derating Curve



Recommended solder pad



Reflow soldering profile



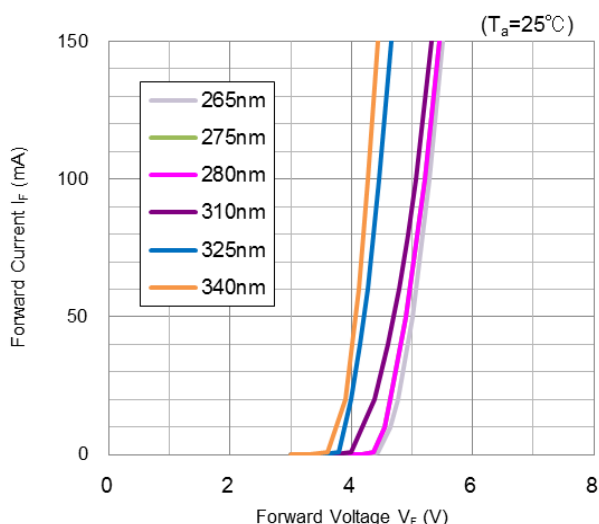
xxx-FD-01-U04, Rev.1.0

MODEL xxx-FD-01-U04 series

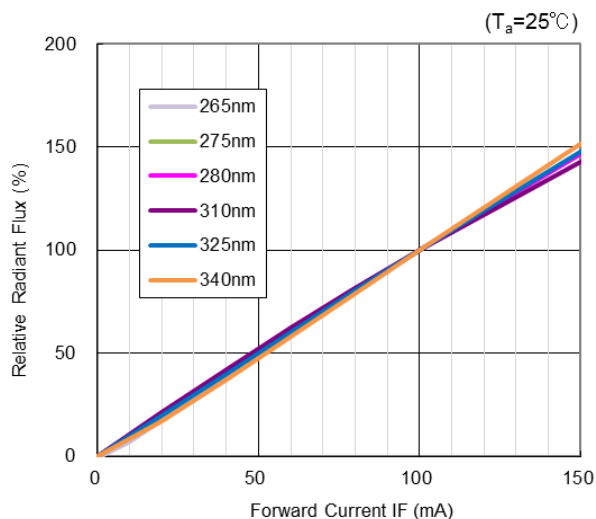
3.5 x 3.5mm Metal Sealed SMD Flat Top Type

Reference Data

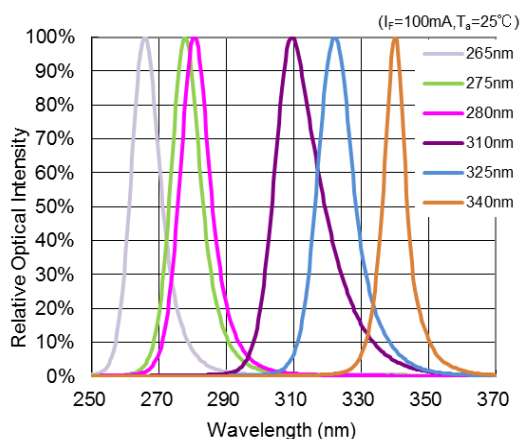
Forward Voltage vs Forward Current



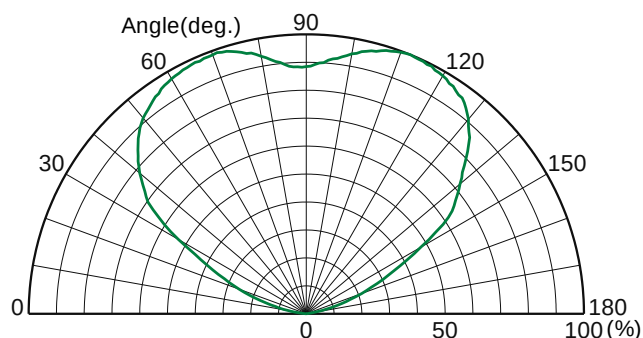
Forward Current vs Radiant Flux



Wavelength vs Relative Optical Intensity



Radiation Pattern



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