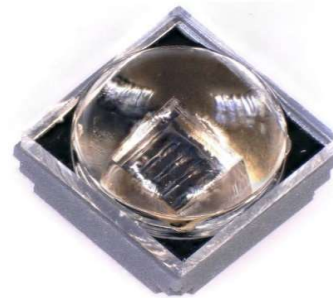
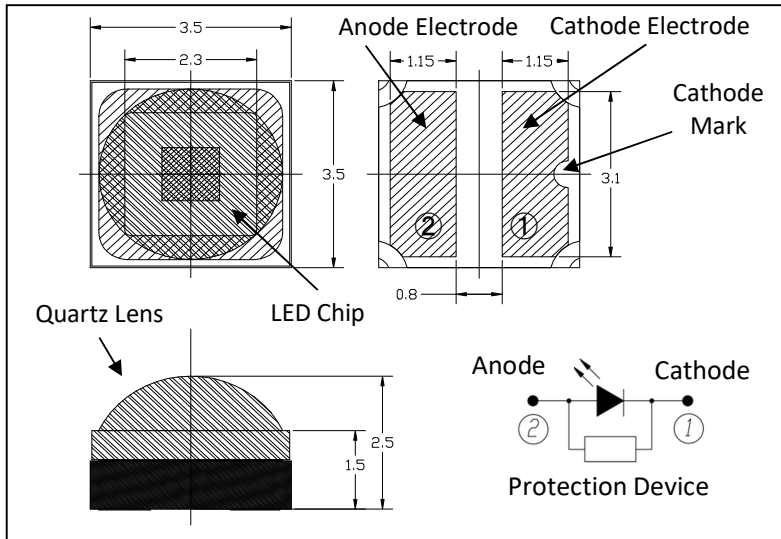


# MODEL 308-FL-02-G02

## 3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens 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	308-FL-02-G02		
			Min	Typ	Max
Peak Wavelength(*)	$\lambda_p$	nm	303	308	313
Radiant Flux(**)	$P_o$	mW	33	47	-
Full Width at Half Maximum	$\Delta\lambda$	nm	-	15	20
Forward voltage	$V_F$	V	-	5.9	-
Viewing Half Angle	$2\theta_{1/2}$	deg.	-	65	-

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

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

(\*\*\*)Junction-ambient

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

Binning is available.

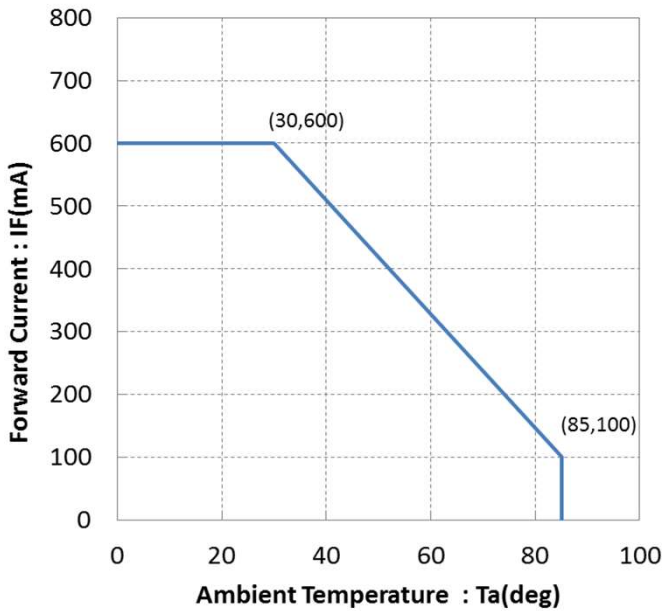
	<b>WARNING</b>
	<ul style="list-style-type: none"> <li>• LEDs emit very strong UV radiation.</li> <li>• Do not look at the LED light with the naked eye or irradiate the skin. UV radiation can harm your eyes and skin.</li> <li>• To prevent UV radiation exposure, wear protective eyewear and protective equipment.</li> <li>• If LEDs are embedded in devices, please indicate warning labels against the UV light LED used.</li> <li>• Keep out of reach of children.</li> </ul>

# MODEL 308-FL-02-G02

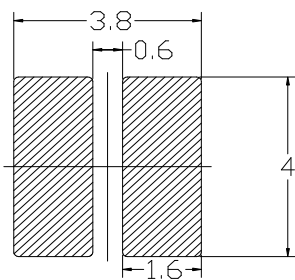
## Absolute Maximum Ratings

Item	Symbol	Unit	Value
Forward Current	$I_F$	mA	600
Junction Temperature	$T_J$	°C	100
Operating Temperature	$T_{OPR}$	°C	-30 ~ +85
Storage Temperature	$T_{STR}$	°C	-40 ~ +85 (No condensation)

## Derating Curve

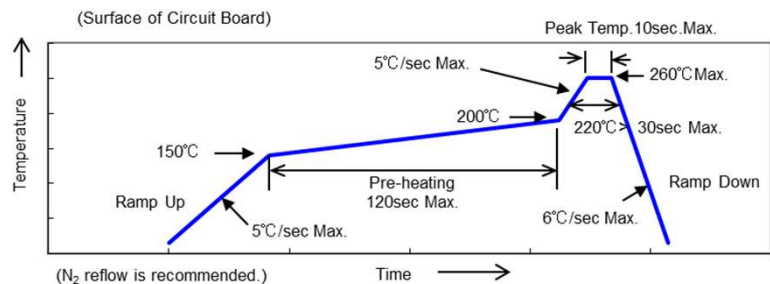


## Recommended solder pad



Unit : mm

## Reflow soldering profile

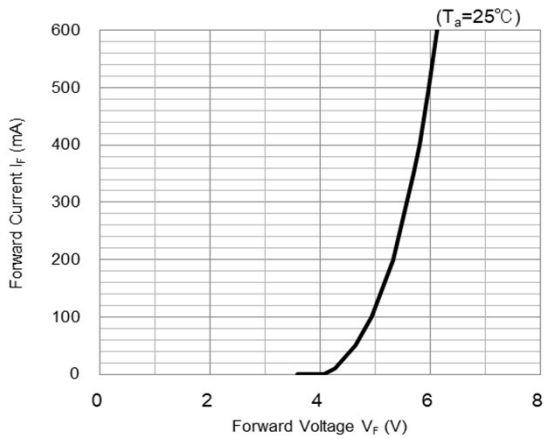


This soldering profile is according to JEDEC-J-STD-020D.

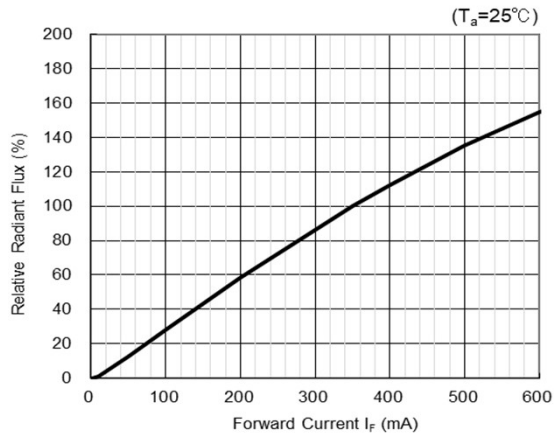
# MODEL 308-FL-02-G02

## Reference Data(1)

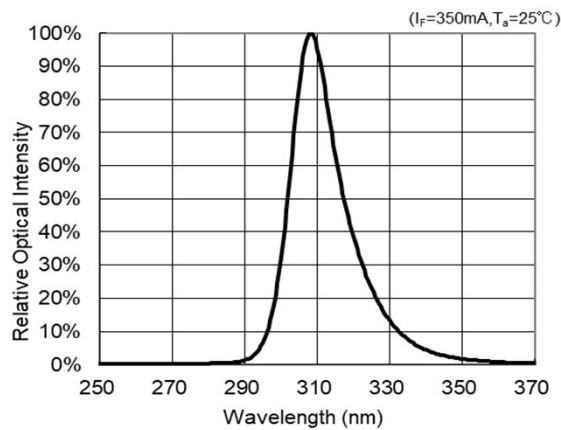
### Forward Voltage vs Forward Current



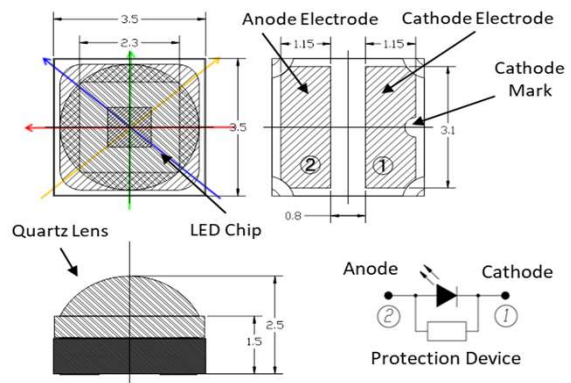
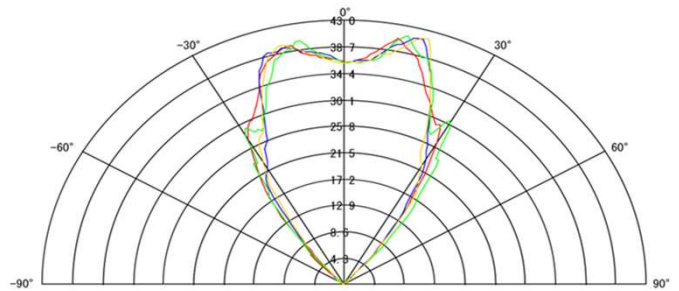
### Forward Current vs Radiant Flux



### Spectrum



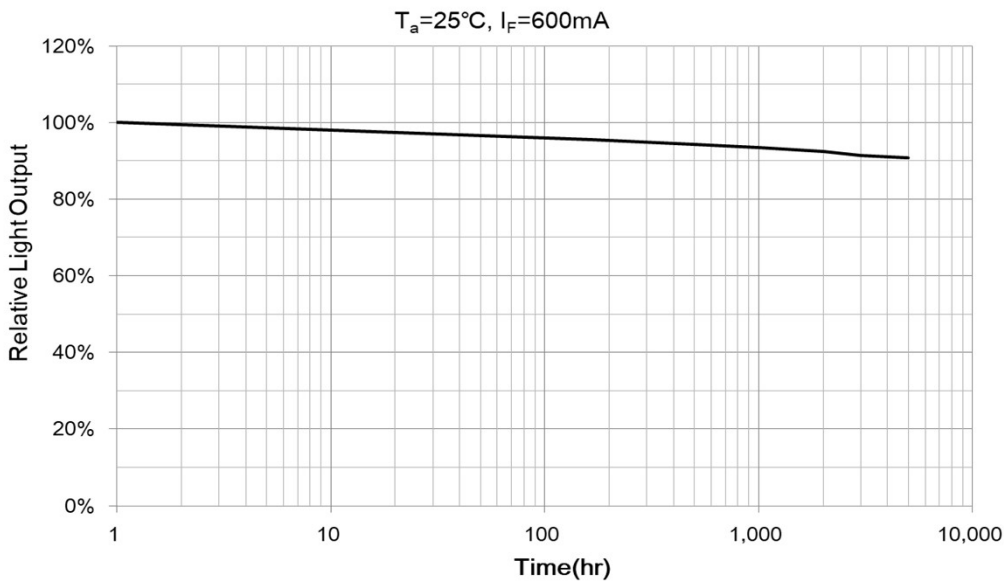
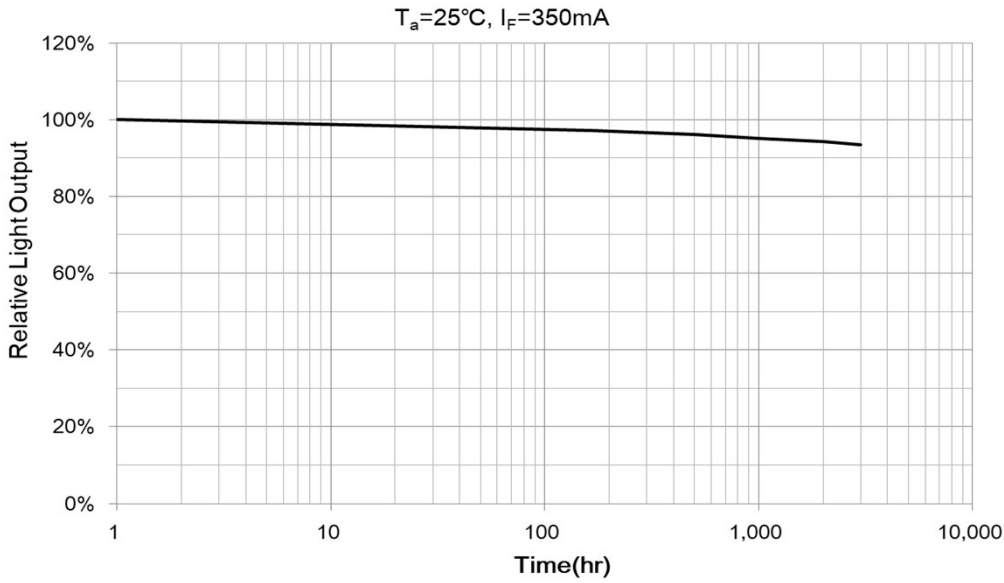
### Radiation Pattern



# MODEL 308-FL-02-G02

## Reference Data(2)

### Life Expectancy Data



These data as on the page 1 to 4 were determined with Al-substrate on a heat sink and fan.