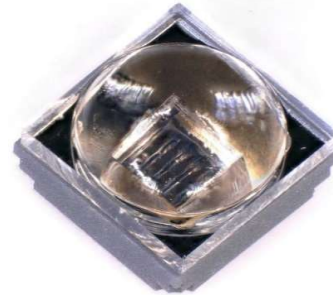
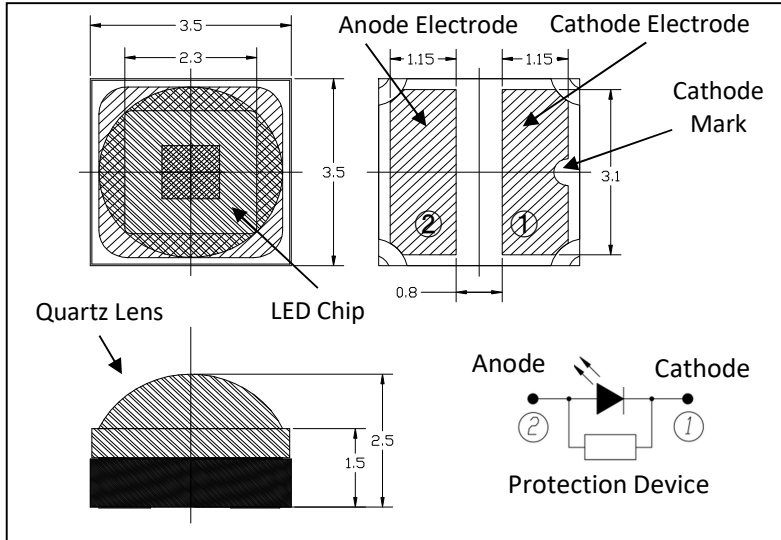


MODEL 308-FL-02-G02
3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type

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(*) | λ_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.

| | |
|--|---|
| | WARNING |
| | <ul style="list-style-type: none"> • 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. |

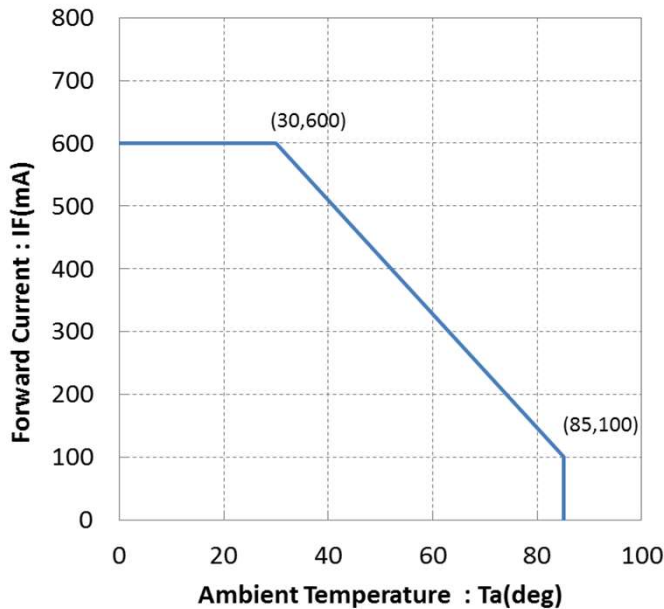
MODEL 308-FL-02-G02

3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type

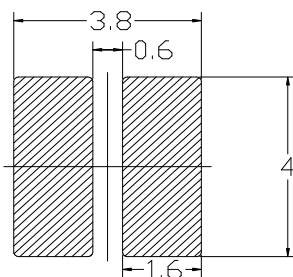
Absolute Maximum Ratings

| 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

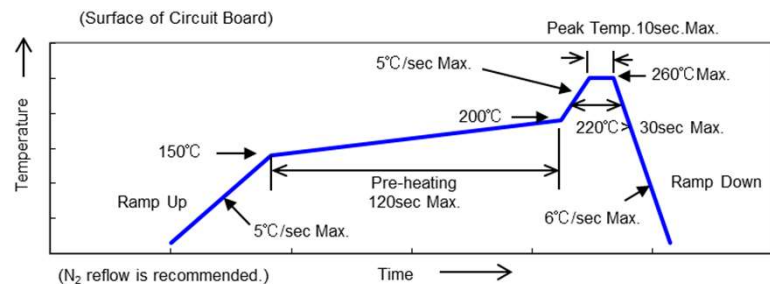


Recommended solder pad



Unit : mm

Reflow soldering profile



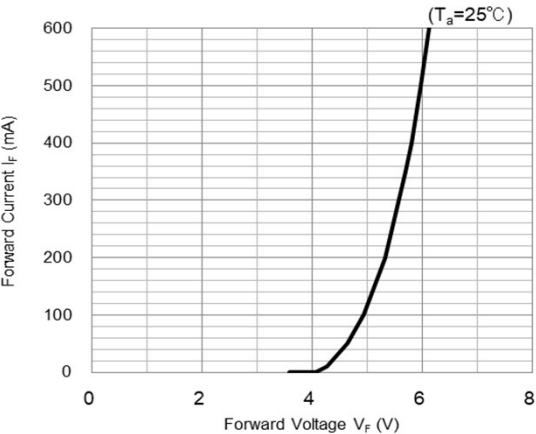
This soldering profile is according to JEDEC-J-STD-020D.



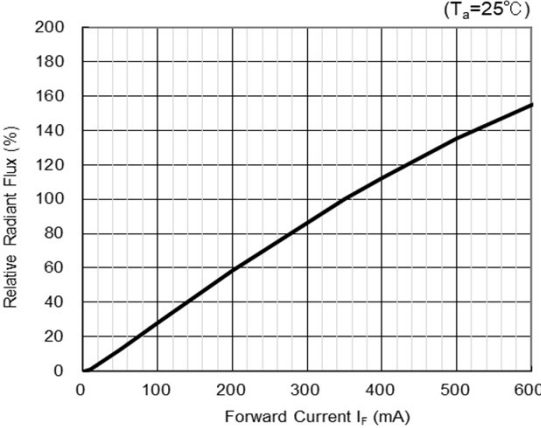
MODEL 308-FL-02-G02

3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type Reference Data(1)

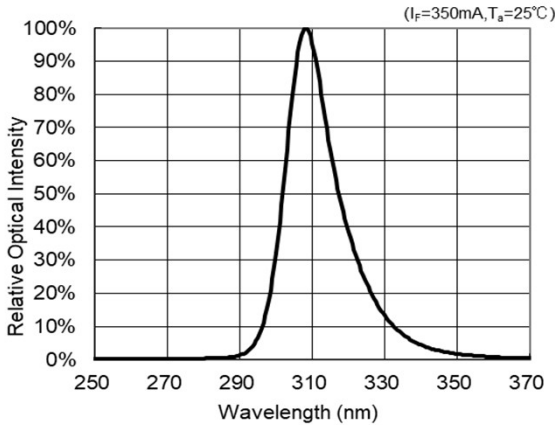
Forward Voltage vs Forward Current



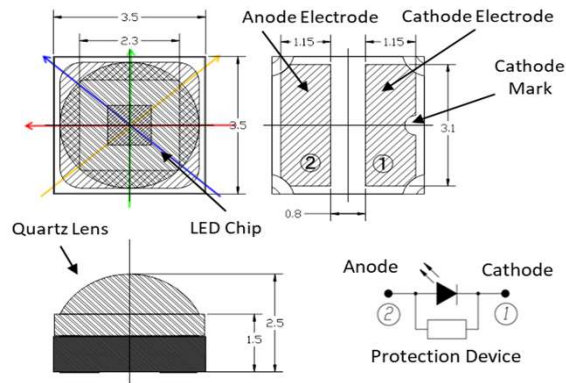
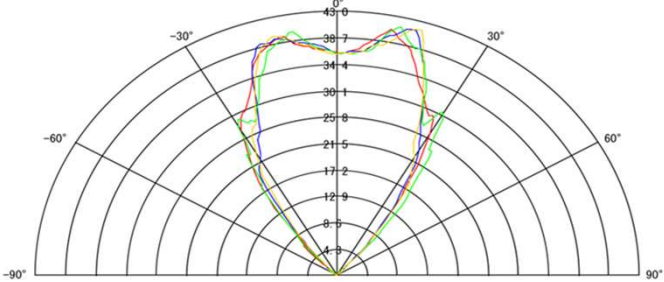
Forward Current vs Radiant Flux



Spectrum



Radiation Pattern

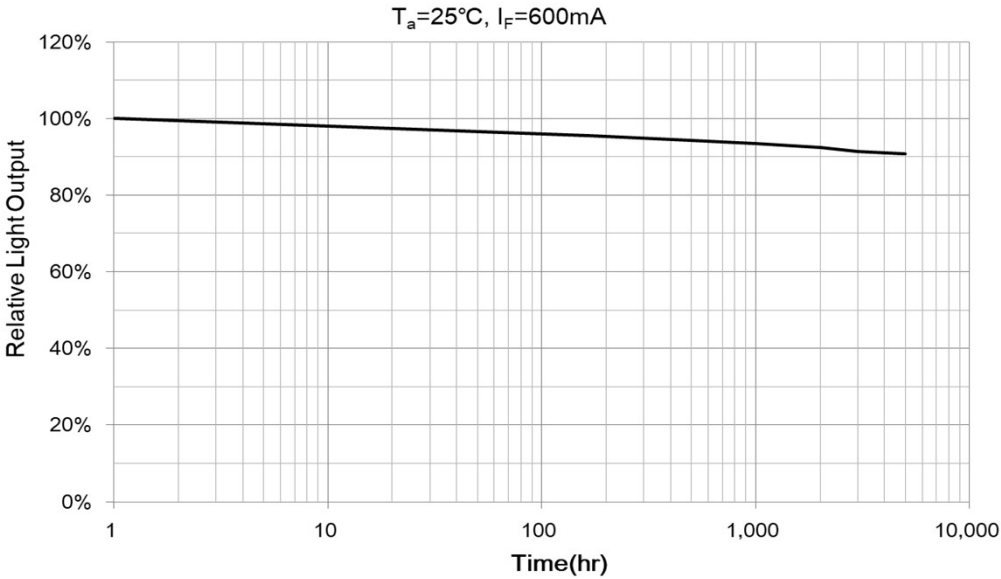
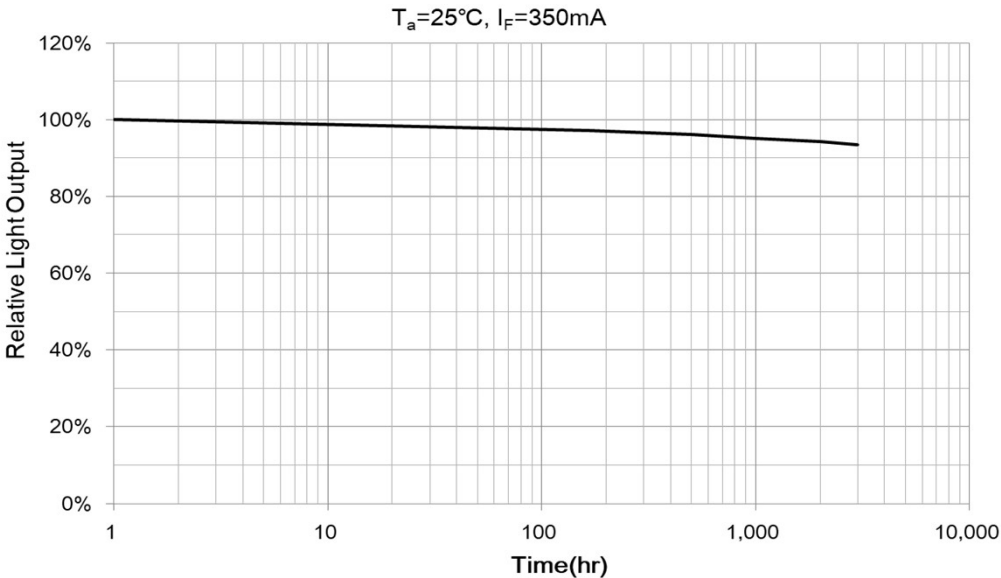




MODEL 308-FL-02-G02

3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type 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.