SCHOTT Solidur® UVB/C LEDs are incredibly robust as they are encapsulated in hermetic housings made with only inorganic, non-aging materials. They can be fully customized as SMD or (Transistor Outline-based) through-hole designs. Special design options include a broad variety of geometries, sizes, beam angles, and layouts with multiple chips.

### Features of Solidur® UV LEDs

- **Forward current** $I_f$: $I_{f,\text{typ}} = 350\, \text{mA}$, max. $I_{f,\text{max}} = 600\, \text{mA}$
- **Peak wavelength** $\lambda_p$: 265 – 310 nm at 350 mA
- **Radiant flux** $\Phi_{\text{typ}}$: $>30\, \text{mW}$ at 350 mA (design dependent)
- **Forward voltage** $V_f$: $5 – 5.5\, \text{V}$ at 350 mA
- **Beam angle** (FWHM) $\Theta_b$: 20 – 130° (customized)

### Dimensions

- SMD Designs: Size: 3.5 x 3.5 mm² or 5 x 5 mm², Height: ≥1.6 mm
- Through-Hole Designs: Ø ≥3.3 mm, Height: ≥3 mm

### Lens material

- SCHOTT RayVision®
  - CTE (20°C;300°C): 4.1 x 10⁻⁶/K
  - Transformation temp.: 440°C
  - Refractive index (at 587.6 nm): 1.476
**Optical and electrical characteristics. Typical values.**

<table>
<thead>
<tr>
<th>Radiant Flux $\Phi_e$</th>
<th>Relative Spectral Emission $\Phi_e, \text{rel}(\lambda)$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\text{Typ. Radiant Flux } \Phi_e \text{typ} \text{ [mW]}$</td>
<td>$\text{FWHM: } \Delta \lambda = 10 \text{nm}; \text{ Forward Current } I_f = 350 \text{mA}$</td>
</tr>
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</table>

**About SCHOTT**

SCHOTT is a global leader in specialty glass. SCHOTT has over 75 years of expertise in glass-to-metal and ceramic-to-metal sealing and is the only supplier that can offer complete in-house process setup, including glass formulation. These types of hermetic packaging are the top choice for harsh environment, high-reliability applications.

SCHOTT Solidur® LEDs are a proven technology with reliable operation in medical and industrial applications. For through-hole Transistor Outline based solutions, SCHOTT is an innovation leader in high-precision datacom/telecom applications.

*Disclaimer*

Measurements are shown for LED module with flat window lens cap with frame | Typical values are shown | Values are measured with a constant substrate temperature of the LED module of $T_s = 25^\circ\text{C}$ | Flux values are measured with a tolerance of $\pm 10\%$ | Forward voltage is measured with a tolerance of $\pm 0.05\text{V}$ | LEDs emit strong UV radiation. Adequate protective eyewear and equipment must be used | Specifications are subject to change