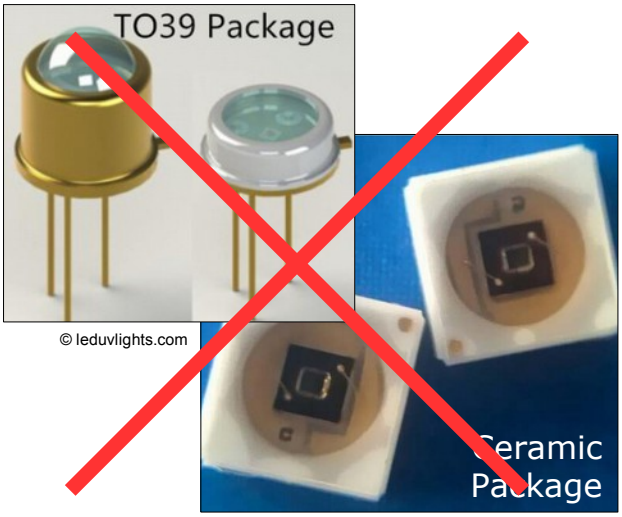
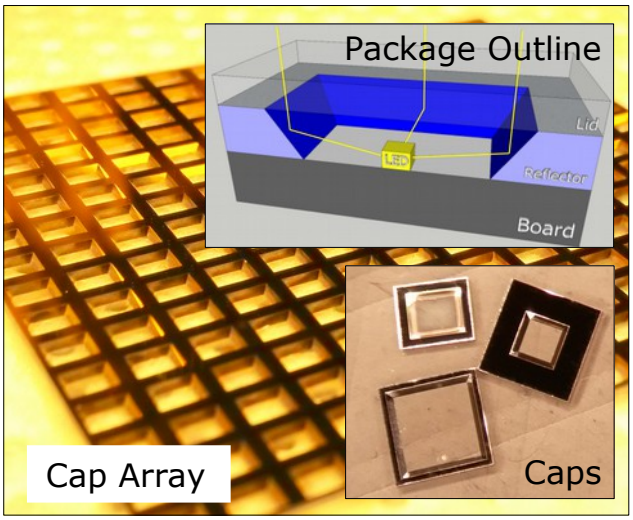
Lithoglas®

Maximizing UV-C Light Extraction Efficiency

Conventional Packages



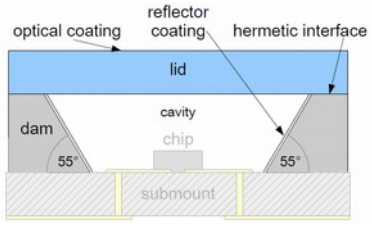
Lithoglas Package



Lithoglas® DUV-Caps

- High light output: → High transparency for UV-C (fused silica)
  → Al-coated reflector (55°)
  → Anti-reflective coatings on lid
- Hermetic, anorganic materials,
- Bondable to substrate by metallization (Standard: Ni/Au)
- Heat transfer from lid to substrate through silicon sidewall
- Small outline, typical dimensions 3.5 mm x 3.5 mm x 1.2 mm
- Cap arrays with multiple reflectors for compact high power output

Design Rules:



typ. application: *HB-/UV-LED packaging*

Lid Material	*Fused Silica / optical topside coating*
Lid Thickness	*≥ 200 µm, ≤ 1100 µm*
Dam Material	*Silicon with Aluminum Overcoat*
Dam / Cavity Height	*≥ 300 µm, ≤ 700 µm*
Min. Dam Width (top)	*≥ 300 µm*
Side Wall Angle of Dam	*55°*
Window Cavity Size	*≥ 500 µm*
Cavity Shape	*square / rectangular*
Window Outside Dim.	*≥ 2000 µm (Standard: 3.4 mm x 3.4 mm)*

Maria-Reiche-Str. 1
01109 Dresden, Germany
P: +49 30 46798 315
F: +49 32 12123 9568
www.lithoglas.de
info@lithoglas.de