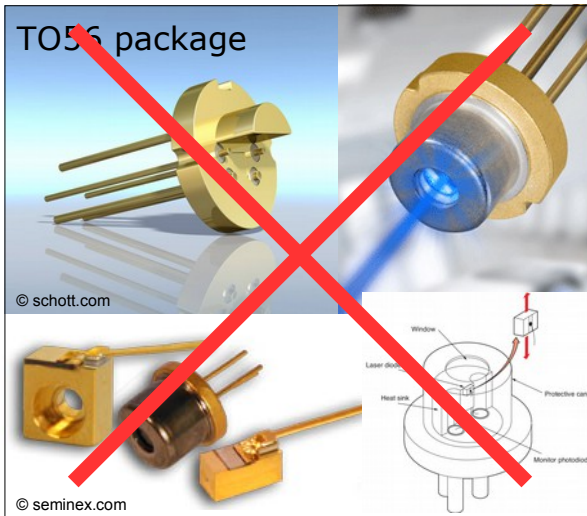
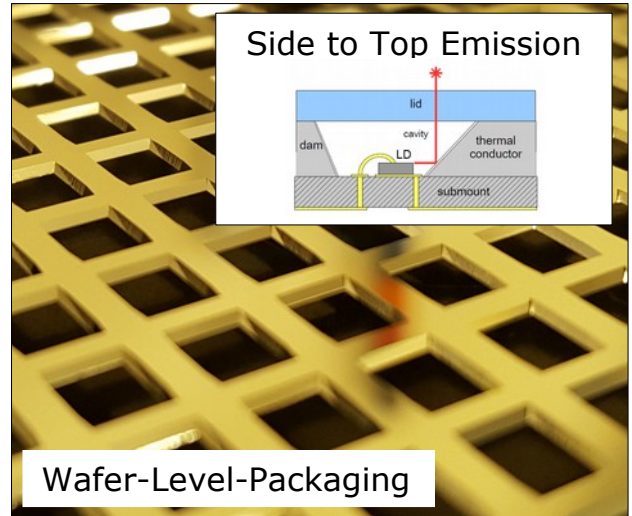


# Small & Hermetic: Laser Diode Caps

## Conventional Packages



## Lithoglas Package

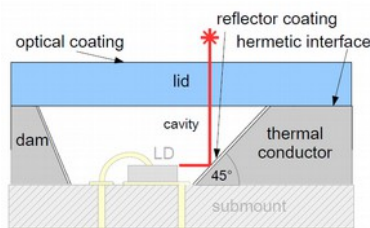


## Lithoglas® Laser Diode Caps

- Miniaturization by small outline SMD package
- Integrated 45° reflector (redirecting light to the top)
- Reflector with Al- or dielectric coating – up to 99% reflectivity
- Glass lid with antireflective coatings
- Bondable to substrate by Ni/Au metallization

SMD • Hermetic • Die-, Array- or Wafer-Level Packaging

### Design Rules:



typ. application: laser diode packaging

*Lid Material*  
*Lid Thickness*

*Dam Material*  
*Dam / Reflector Height*

*Min. Dam Width (top)*  
*Side Wall Angle of Dam*

*Chip Area*

*Cap Shape*

*Cap Outside Dim.*

*Glass with optical coatings*  
 $\geq 200 \mu\text{m}, \leq 1100 \mu\text{m}$

*Silicon with reflector coating*  
 $\geq 300 \mu\text{m}, \leq 700 \mu\text{m}$

*one side 45°, or all sides approx. 55°*

$\geq 500 \mu\text{m}$

*rectangular*

$\geq 2000 \mu\text{m}$