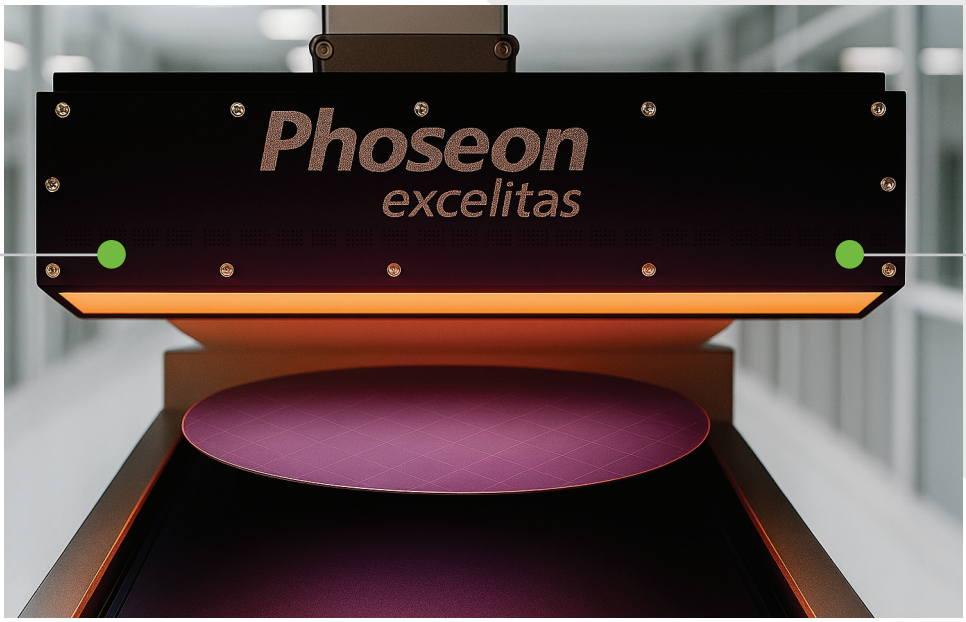
FireJet™ Infrared LED Heater for Wafer Processing

Phoseon®



Investigating IR-LED Silicon Wafer Heating

- Uniform heating of silicon wafers
- Precise temperature control
- Rugged & Reliable

Advantages of IR-LEDs

- Narrow-band emission closely matches silicon absorption (~900–1100 nm)
- Rapid heating and fast modulation
- Thermal Management

Efficient IR-LED heaters for the semiconductor industry

Heating silicon wafers, often referred to as annealing, is one of the most critical sets of steps in chip fabrication. Wafers may be heated at different temperature, depending on the specific process.

The Excelitas FireJet IR-LED heater offers powerful systems that are ideal for the heating of silicon wafers, with precise temperature, uniform, fast and controllable heating, and instant response time. Targeted spectral output results in efficient absorption in silicon and constant thermal response.

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