

The Fraunhofer-Institute for Silicon Technology (ISIT) works on design, development and production of microelectronic components as well as on microsensors, microactuators and other components for microsystems technology. Further services offered by the institute are the analysis and development of technology pertaining to the quality and reliability of electronic assemblies as well as packaging and mounting technology for microsystems, sensors and multichip modules.

Key Research Fields & Competence Areas of ISIT department "Module Integration":

- Ø Quality and reliability of microelectronic assemblies
- Ø Assembly and packaging technology
- Ø Power cycling tests
- Ø Failure analysis by metallography
- Ø Physics of failure approach for life time assessment
- Ø Thermal analysis and simulation

Institute Highlights:

- Ø Semiconductor production line in cooperation with Vishay Semiconductor Itzehoe GmbH
- Ø IC Technology
- Ø Microsystems - MEMS
- Ø ISO 9001:2000 certified quality management system

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