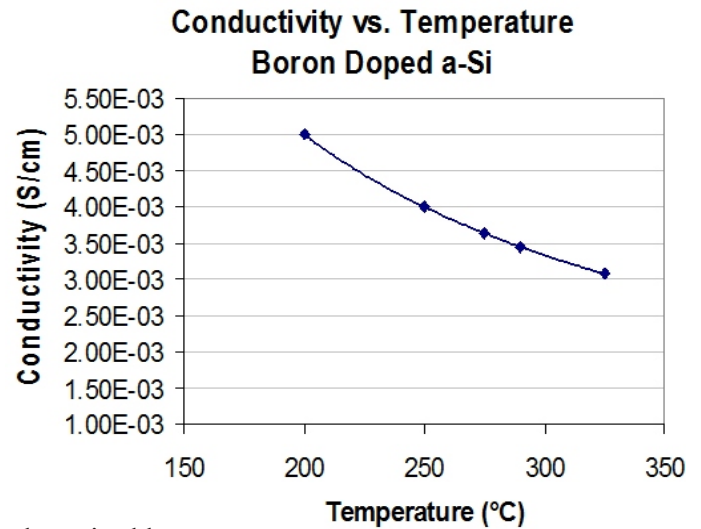
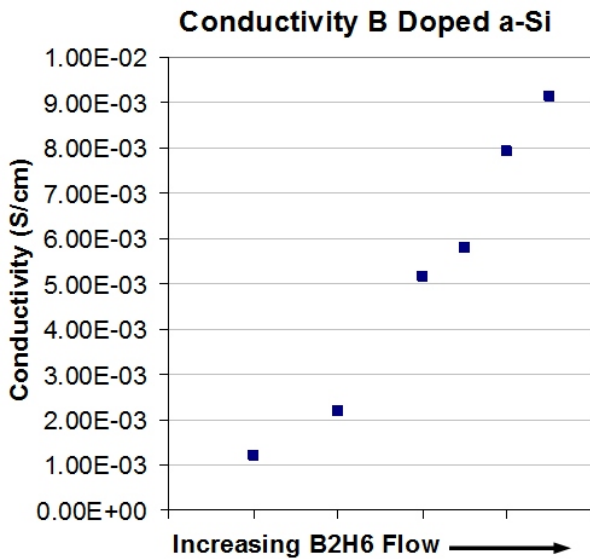


Plasmalab Data

Amorphous Si Deposition (PECVD)

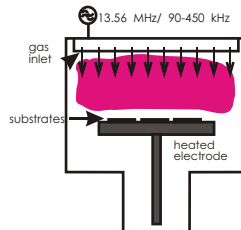


Equipment:
 Plasmalab System 100/133
 Plasmalab 80/800 Plus

Results:
 Rate : 5 - 25 nm/min
 Uniformity: +/- 3% - 4%
 Reproducibility: +/- 2.5%

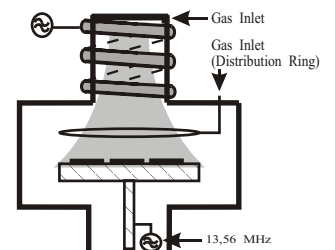
good Si carrier lifetime data of
 ~ 2ms - 2.5ms down to 12nm film thickness
 i - a Si:H dark conductivity 10^{-9} S/cm

a Si can be deposited by:
 parallel plate PECVD
 (13MHz/81Mhz)



Technology:
 Parallel Plate Reactor
 Shower Head Gas inlet
 SiH₄ based process
 (PH₃, B₂H₆ for doping)

a Si can also be deposited by
 "remote plasma" PECVD.



The "remote" plasma only cracks the molecules in a region "remote" from the substrate.

