

APPLICATION BRIEF

SMI no.3 SIM Images of New Devices

2006.4

1. Introduction

The 2 GB flash memory chip in portable music players has received considerable attention. In this brief, cross-sections for SIM images are created.

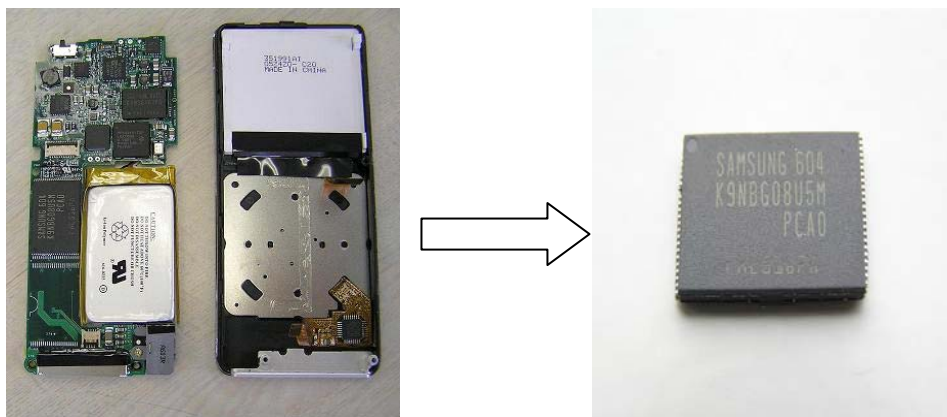


Figure 1 - Removing the Flash Memory Chip

2. Images of FIB Cross-Sections

The SMI 3050SE was used for observation. The images clearly show the structure of the floating gate, indicating that high-powered observation at over 180,000 times is possible even with FIB images.

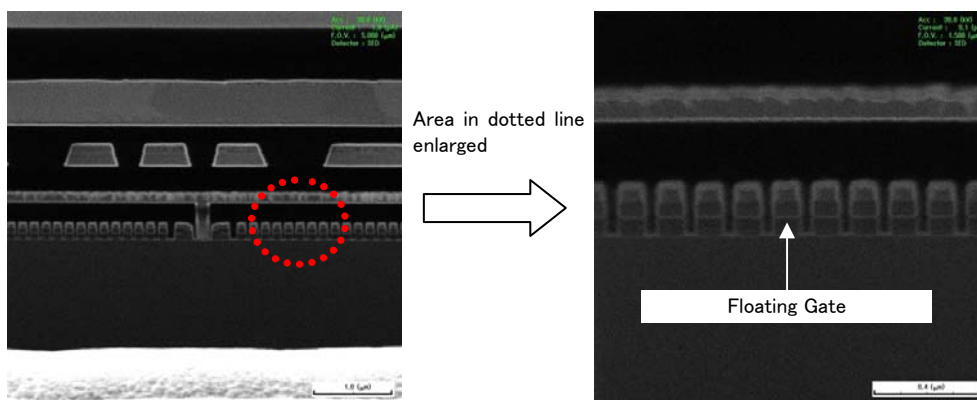


Figure 2 - Images of FIB Cross-Sections (Magnifications: Left: 54,000x, Right: 180,000x)