## NanoSIMS elemental analysis for cross-section of SiC-MOSFET

The NanoSIMS 50L can provide the highest lateral resolution among secondary ion mass spectrometers and can simultaneously achieve high sensitivity and high mass resolution. Here, we introduce cross-section analysis of SiC-MOSFET using NanoSIMS and TEM-EDX.

\_eft: positive

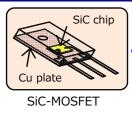
Scanning electron image

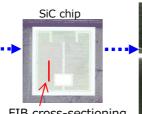
of cross-section

Analysis area

ions, Right Negative ions

## Cross-section image of SiC-MOSFET





A cross-section of SiC-MOSFET was prepared by FIB, after wet-etching of

resins and electrodes on the SiC chip.

Passivation film Source gate ele trode Source Gate ins Jlator p n\* n\* Drain

Schematic diagram of SiC-MOSFET

## Elemental analysis of SiC-MOSFET by TEM-EDX and NanoSIMS

