History / Achievement

1948-1975

1948

· [Inauguration of Electrical Communications Laboratories]

1950

· Fabrication of a Prototype Germanium Point-contact Transistors

1952

 \cdot [Establishment of Nippon Telegraph and Telephone Public Corporation]

1953

· Fabrication of a Germanium Junction Transistors



1955

· [Start of Semiconductor Section]

1958

· Alloy-type High speed Germanium Transistor (fa=130MHz)



1960

 $\cdot \ [\ \text{Establishment of Electrical Communications Laboratories,Ibaraki Branch} \]$



1963

· Fabrication of a Silicon Mesa-transistor(fa>600MHz)

- · Start of Research on Logical Integrated Circuits
- · Start of research on Gallium Arsenide Semiconductors
- · Practical use of Boundary Layer Magnetic Condensers (BL Condensers)



1966

 $\cdot \ [\ \mathsf{Establishment} \ \mathsf{of} \ \mathsf{Basic} \ \mathsf{Research} \ \mathsf{Laboratory} \]$

1968

· Invention of Non-Threshold Logic Circuit (NTL)



1971

- · [Establishment of Integrated Circuit Research Laboratory]
- · [Establishment of Research and Development Administrative Center]
- · [Establishment of Ibaraki Electrical Communications Research Laboratories]

1973

· Invention of Stepped Electrode Transistor (SET)