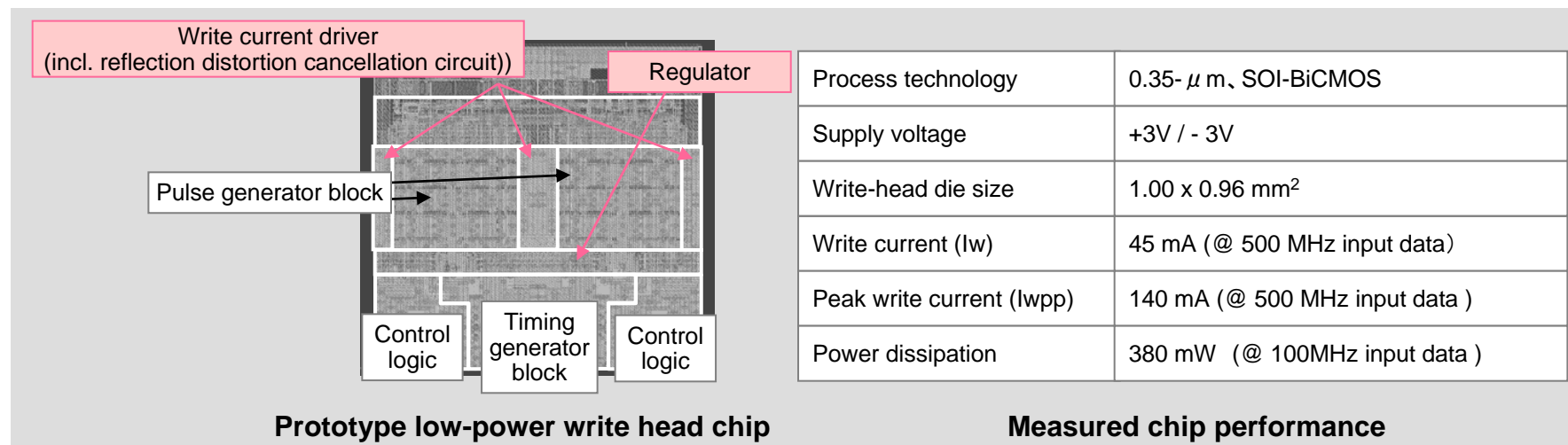


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## Low-voltage write driver circuit for a compact HDD reducing power consumption by half - High-speed write also achieved by suppressing current wave distortion -



**Prototype low-power write head chip**

**Measured chip performance**

Hitachi, Ltd. has developed high-speed low power circuit technology for magnetic heads in compact hard disk drives (HDD), cutting power consumption in a 0.8Gb/s high-speed write operation to about half that of conventional levels; reducing the number of transistors used in the write operation circuit from four to two, and also controlling the current wave distortion during the high-speed write operation. This development is expected to become basic technology for achieving low power consumption in high performance compact HDD increasingly employed in mobile equipment and digital consumer appliances.