Sample and hold Circuit

A sample and hold circuit samples an if bigned and hold on to its last sampled value central the if is sampled again. This lype of clet is very useful in digntal interfacing and analog to digntal and pulse code modulation system. In channel who of the service of the sample and hold control vollege.

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In the above circuit E-MOSFET works as a switch that is controlled by the semple and hold controlled by the semple and hold control vollege as and capacitus C serves as storage element.

The analog Signal Clin to be sampled is applied to the drewn and sample and hold control vollage Us applied to the gate of E MOSPET. During the fue postron of Us, the EMOSPET conducts and acts as a closed switch. This allows the clo vollage to charge capacitus C. and appears at the off.

when is is zero, the EMOSPET is of and act as an open switch. There is no discharge path for C

and the voltage across c is retorned. The time period To of Us during which of voltage equals of voltage is all called sample periods. The time period TH & & during which the vollage aeross the capacitor const (or const vollage at the ofp) are called hold periods. Sample and hold IC LF 398. To obtern close approximation of Up wareform bleg of Us must be significantly higher than that 46) Mulholi atom Hall of Manual Co