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ABSTRACT

In the structure in which an input signal IN and a reverse-phase signal XIN thereof are externally input, an external IC is required for generating the reverse-phase signal XIN, and the number of required input signal terminals is two.

A level shift circuit formed on an insulating substrate, such as a glass substrate, using transistors with large characteristic variations, for example, TFTs with high thresholds V_{th} , includes a complementary generator unit (11) driven by a first power supply (VCC) having an amplitude voltage equal to the amplitude voltage of a signal externally input from the substrate to generate complementary signals from a single-phase input signal IN. The complementary signals generated by the complementary generator unit (11) are level-shifted by a level shift unit (14). Therefore, it is no longer necessary to externally input the reverse-phase signal XIN.