ABSTRACT

STRUCTURE AND METHOD FOR MOUNTING SEMICONDUCTOR DEVICES, AND LIQUID CRYSTAL DISPLAY

A semiconductor device (4) is mounted on one of the surfaces of a circuit board (3). Further, an input line (12) and an output line (9) and at least one of an input terminal (11) and an output terminal (8) of the circuit board (3) are formed on the same surface. In the case where only one of the input and output terminals is formed on the surface on which the semiconductor device mounted, the other terminal is formed on the other surface of the circuit board and is further connected with a corresponding input or output line through a via hole by an interlayer connection. Moreover, an input bus line (14) connected to the input terminal is provided therein to connect adjoining semiconductor devices provided on the same circuit board or to connect a semiconductor device provided on a circuit board with a semiconductor device provided on another adjoining circuit board. Semiconductor devices are mounted in a liquid crystal display by connecting the output terminal of the circuit board with a corresponding LCD terminal (17) of an LCD cell 2 through an anisotropic conductive film (18). Adjacent circuit boards are connected with each other by connecting the adjoining input terminals with each other by using a wire (21) or an FPC (22) or the like.

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