

Abstract

**LIQUID CRYSTAL DISPLAY DEVICE HAVING
TWO METASTABLE STATES AND ITS DRIVING METHOD**

A liquid crystal display device containing chiral nematic a liquid crystal having a twisted structure is provided with a period during which a pulse voltage is applied that brings about a Frederick's transition and a period during which a voltage pulse, which is selected using the critical value that generates one of the two metastable states as a reference, is applied, and it displays by switching between the bistable states. Thereby a high speed multiplex-driven liquid crystal display device capable of performing high precision display while maintaining high contrast and a wide viewing angle is achieved.

Fig.29.