34 X 128 Pixel Matrix Driver

PCF8531U

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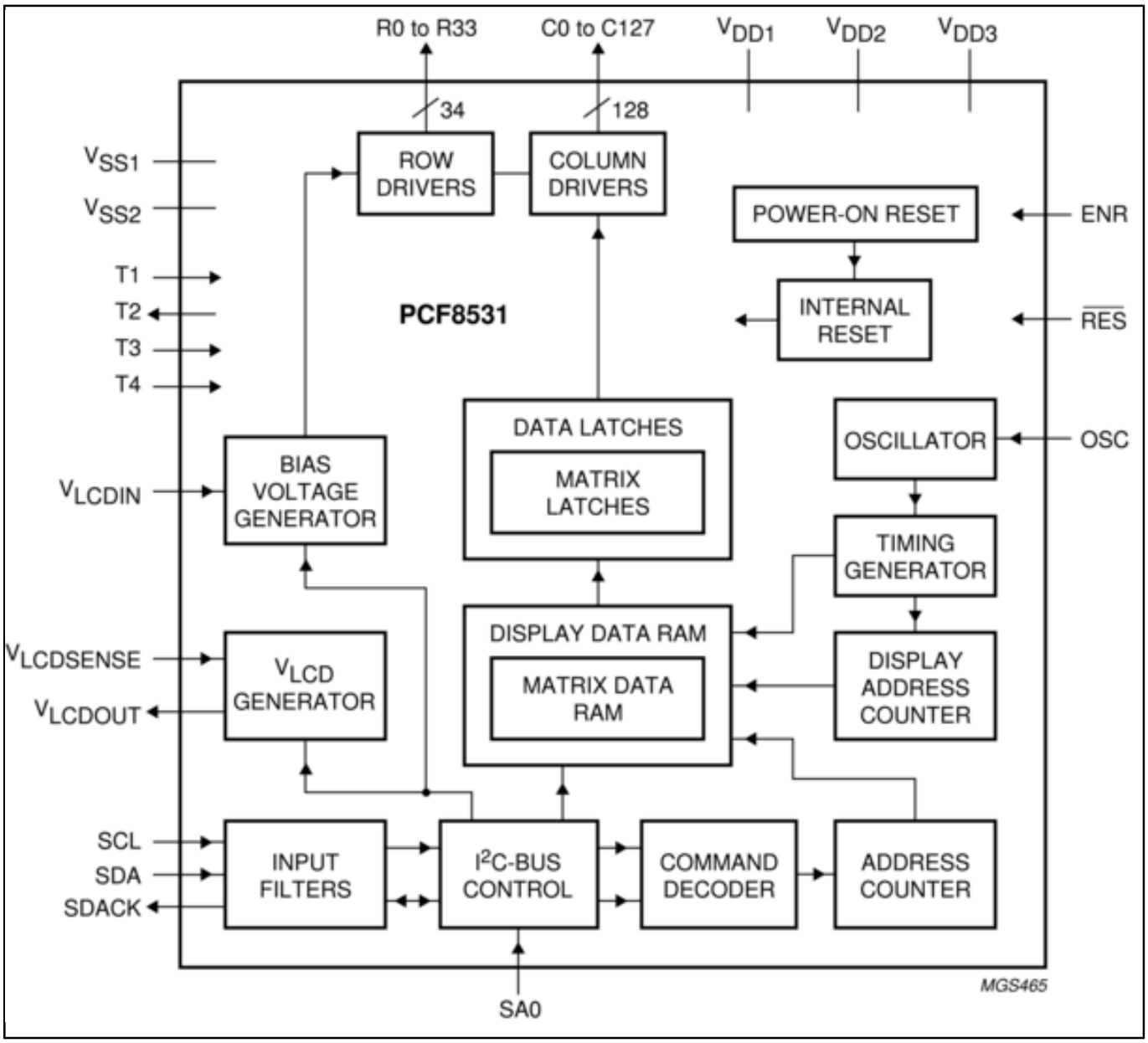
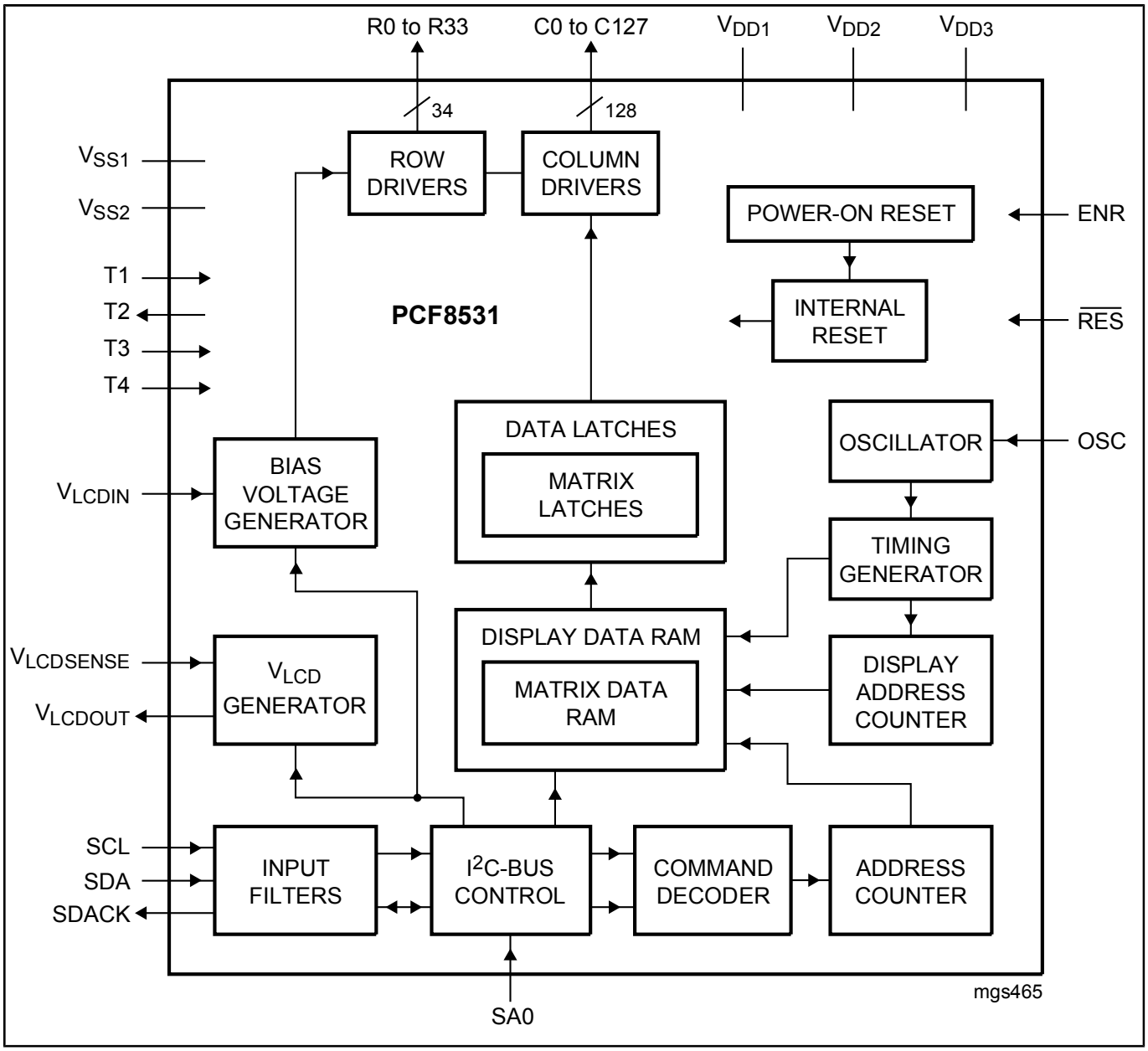
The PCF8531 is a low-power CMOS LCD row and column driver, designed to drive dot matrix graphic displays at multiplex rates of 1:17, 1:26, and 1:34. Furthermore, it can drive up to 128 icons. All necessary functions for the display are provided in a single chip, including on-chip generation of VLCD and the LCD bias voltages, resulting in a minimum of external components and low power consumption. The PCF8531 is compatible with most microcontrollers and communicates via a two-line bidirectional I²C-bus. All inputs are CMOS compatible.

Remark:The icon mode is used to reduce current consumption. When only icons are displayed, a much lower operating voltage (VLCD) can be used and the switching frequency of the LCD outputs is reduced. In most applications it is possible to use VDD as VLCD.

Block diagram: PCF8531U Block Diagram



PCF8531 Block Diagram Block Diagram



View additional information for 34 X 128 Pixel Matrix Driver.

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