



Universal LCD Driver for Low Multiplex Rates Including A Six-Channel PWM Generator

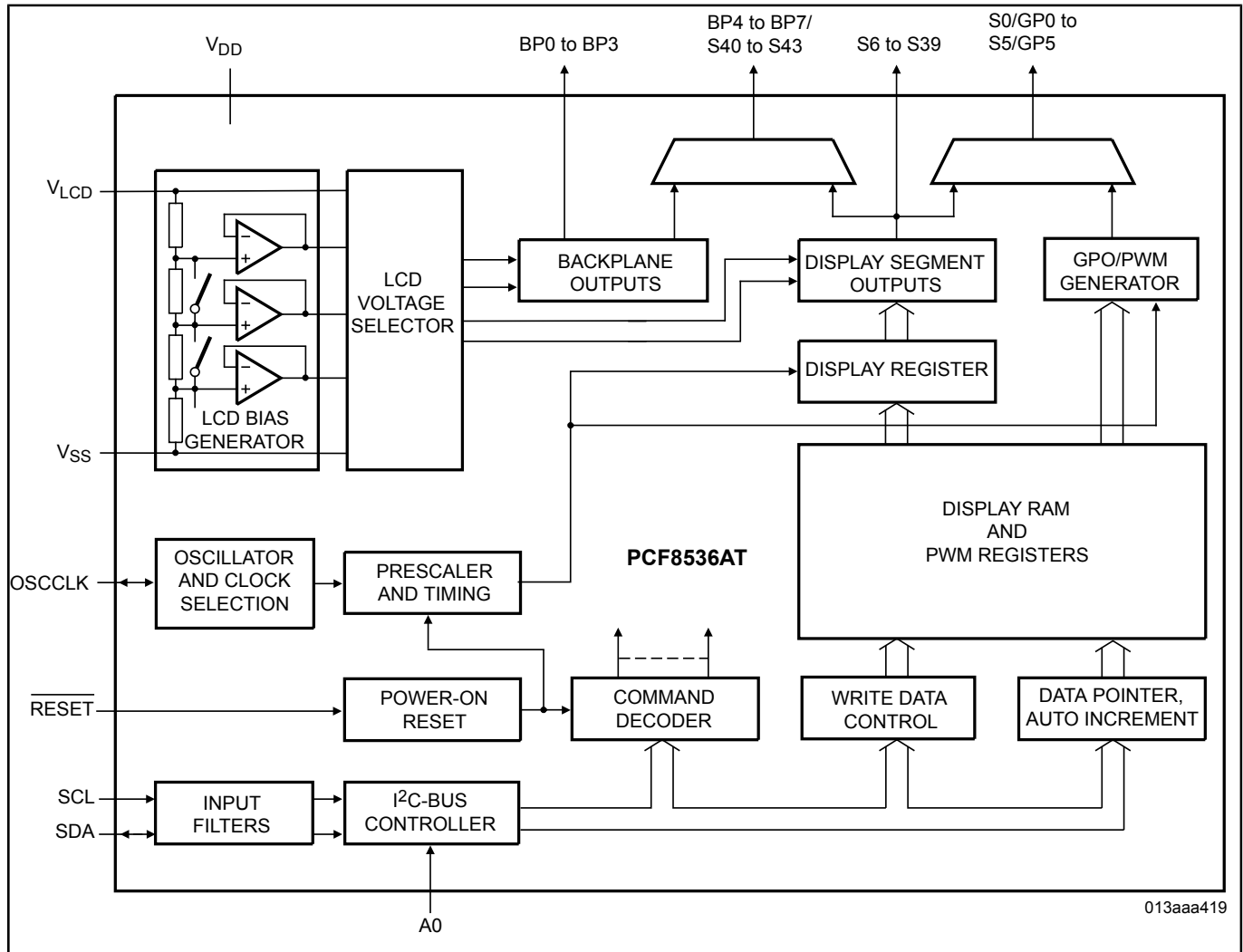
PCF8536

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The PCF8536 is a peripheral device which interfaces to almost any Liquid Crystal Display (LCD) with low multiplex rates. It generates the drive signals for any multiplexed LCD containing up to eight backplanes, up to 44 segments, and up to 320 elements. The PCF8536 is compatible with most microcontrollers and communicates via the two-line bidirectional I²C-bus (PCF8536AT) or a three line unidirectional SPI-bus (PCF8536BT). Communication overheads are minimized using a display RAM with auto-incremented addressing.

The PCF8536 features an on-chip PWM controller for LED illumination. Up to six independent channels can be configured. Each channel has 128 levels allowing the possibility for two RGB controllers. Each of them provides over 2 million colors. Each channel can also be used for static drive.

PCF8536 BLOCK DIAGRAM Block Diagram



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