Octal Valve Controller System on Chip

MC34SB0800

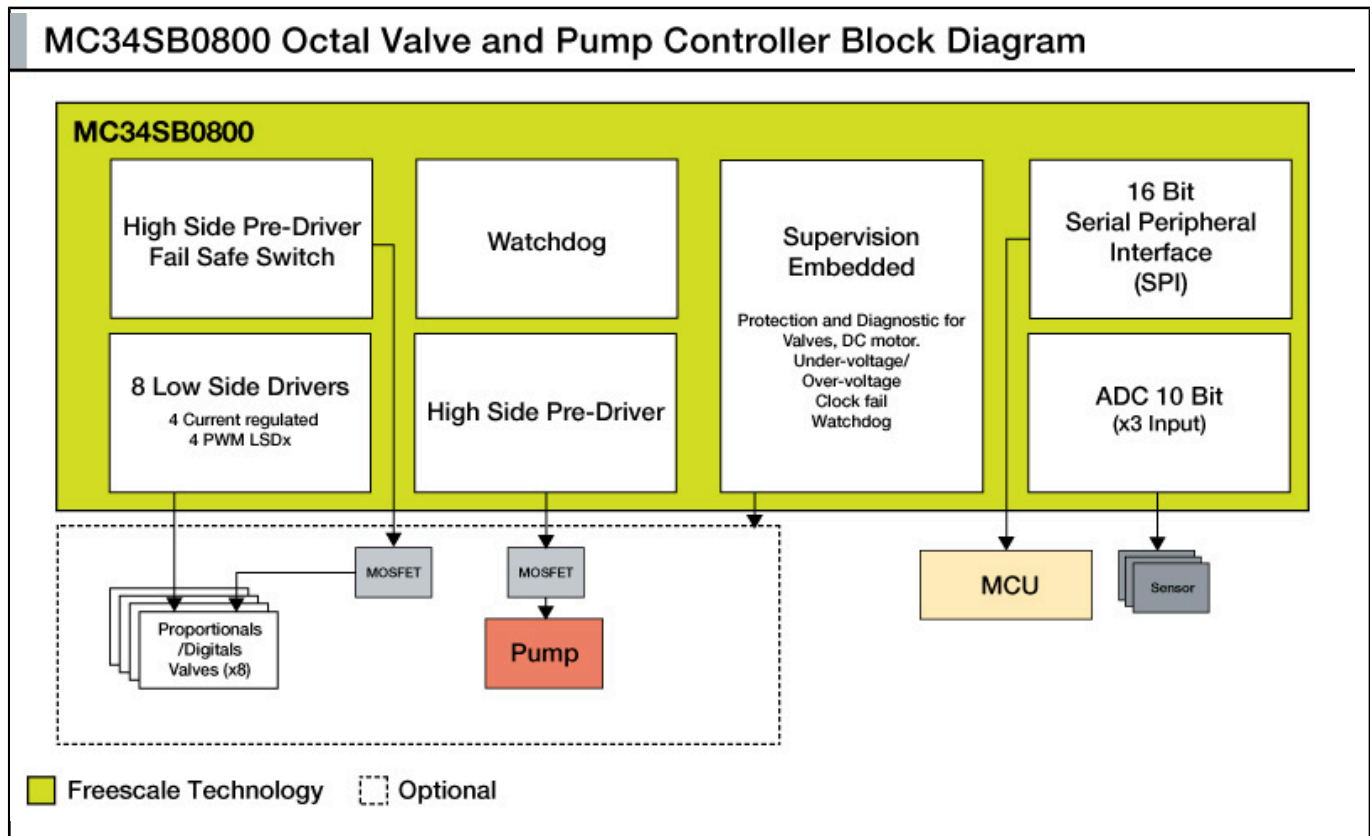**Archived**

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The NXP® MC34SB0800 Octal Valve and Pump Controller System on Chip consists of four low-side drivers regulated and four low-side drivers digitals, plus a high side to control a DC motor.

- Suitable for loads with high inrush current and allows driving to high frequency (up to 5 kHz)
- With SPI communication, you can perform control and diagnostic functions directly on the chip
- Designed for harsh environments and includes self-recovery features due to the embedded supervision that allows extensive safety monitoring
- A predriver MOSFET increases safety by turning off all valves in the event of any issue
- Ideal solution to drive hydraulic or pneumatic valves without "smart electronics"
- Processor Expert® component Valve Driver and Embedded Software Valve Driver enables rapid embedded application development.

MC34SB0800 Octal Valve and Pump Controller Block Diagram Block Diagram

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MC34SB0800

High Side Pre-Driver Fail Safe Switch	Watchdog	Supervision Embedded	16 Bit Serial Peripheral Interface (SPI)
8 Low Side Drivers 4 Current regulated 4 PWM LSDx	High Side Pre-Driver	Protection and Diagnostic for Valves, DC motor. Under-voltage/ Over-voltage Clock fail Watchdog	ADC 10 Bit (x3 Input)

MOSFET

MOSFET

MCU

Sensor

Proportionals /Digitals Valves (x8)

Pump

■ Freescale Technology ⬚ Optional

View additional information for Octal Valve Controller System on Chip.

Note: The information on this document is subject to change without notice.