

Features

- 12 high current outputs (RDS_{ON} typ. 1.5Ω / $I_{MAX} = 350mA$)
- Low standby current (typically $<1\mu A$)
- Serial interface (SPI) for direct μC interfacing
- Short circuit / Open load detection, diagnosis
- T_{Junc} peak = $+150^{\circ}C$

General Description

The Elmos Driver ICs E520.02/08 control twelve/eight low-side switched relays. The ICs autonomously generate a constant relay holding current in a wide supply voltage range. A special circuit generates a PWM duty-cycle which automatically compensates changes in the supply voltage. So, there is no need for an external controller to observe the supply voltage and adapt the PWM duty-cycle for a constant relay holding current.

The IC is configured and controlled over an SPI interface. All outputs are short circuit and over-temperature protected with error read back capability. Switch monitoring with control lamp combination with only 1 wire and output is possible. For fast time-to-market Elmos provides demo-boards as well as design-in support.

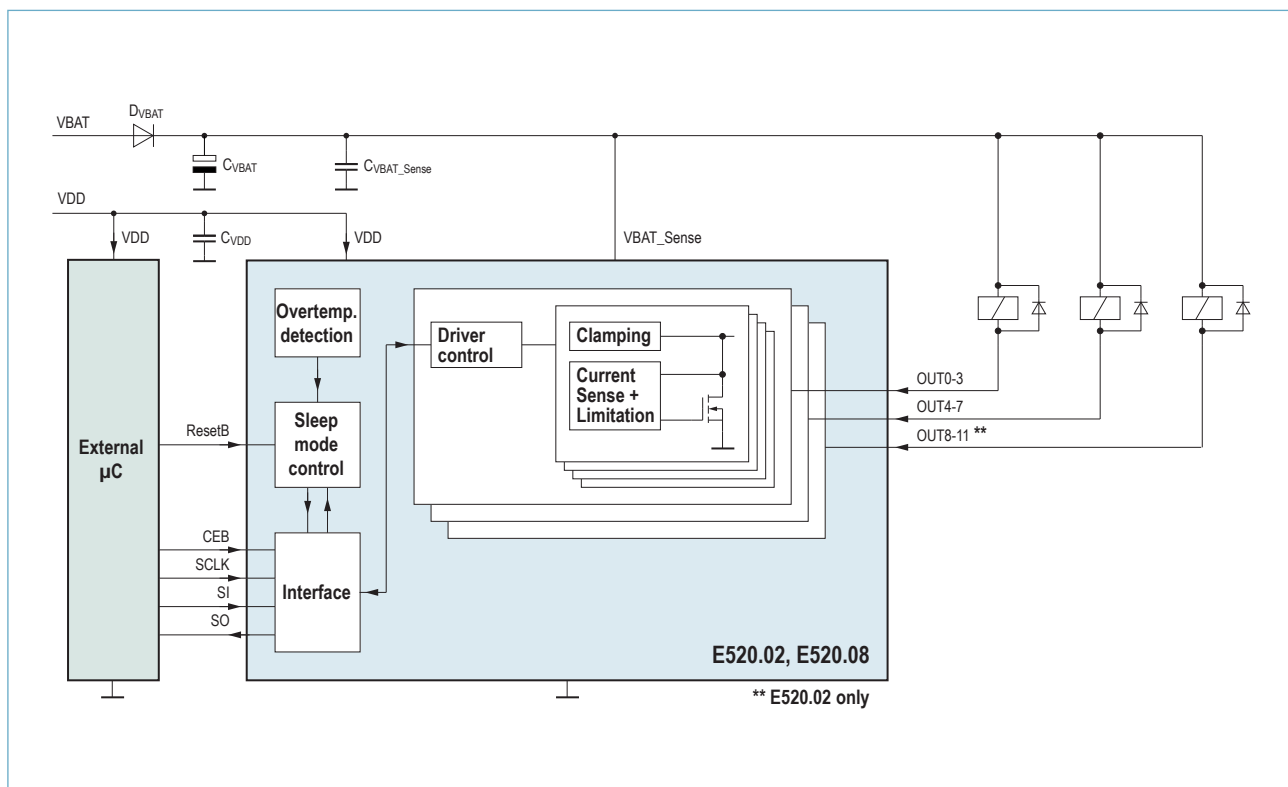
Ordering Information

Ordering-No.:	Features	Package
E52002A05E	control 12 low-side switched relays	SOIC28
E52002A61C	control 12 low-side switched relays	QFN32L5
E52008A62C	control 8 low-side switched relays	QFN20L5
E52008A61C	control 8 low-side switched relays	QFN32L5
E52008A55E	control 8 low-side switched relays	SOIC20

Applications

- Relay Driver with automatically VBAT- dependent WM duty cycle generation
- Low power dissipating relay boards

Typical Application Circuit



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