

Product Information

LIN Transceiver with Integrated Voltage Regulator

TH8062

The TH8062 is a System Basis IC (SBC) for LIN slave applications.

It consists of a low drop voltage regulator 5V/70mA and a LIN BUS Transceiver. The LIN-Transceiver is suitable for LIN-BUS systems that conform to "LIN-Protocol Specification" Rev.1.3, 2.0 and SAE J2602. The IC can be used furthermore in ISO9141 systems.



Features

LIN Transceiver

- Compatible to LIN Spec. 1.3, 2.0 and SAE J2602
- Baud rate up to 20 kBaud
- Slew rate control for best EME behavior
- Low slew mode for optimized SAE J2602 transmission
- High EMI immunity
- High signal symmetry for using in RC – based slave nodes
- Wake-up via LIN BUS traffic

Voltage Regulator

- Linear low drop voltage regulator 5V/70mA
- Operating voltage VS = 6 ... 18 V
- Low standby current consumption of typ 15 μ A (max 30 μ A) in sleep mode
- Output current limitation
- Over-temperature shutdown

Other Functions

- Reset output (8ms/4.65V, 4ms, 15ms and 30ms as option)
- Automotive Temperature Range of -40°C to 125°C
- CMOS compatible interface to microcontroller
- Small SOIC8 package, fully pin and function compatible to TH8061
- Available as lead-free and RoHS compliant



Small things make a big difference.

Automotive ICs

RF & RFID

Intelligent Drivers and Actuators

Bus ICs

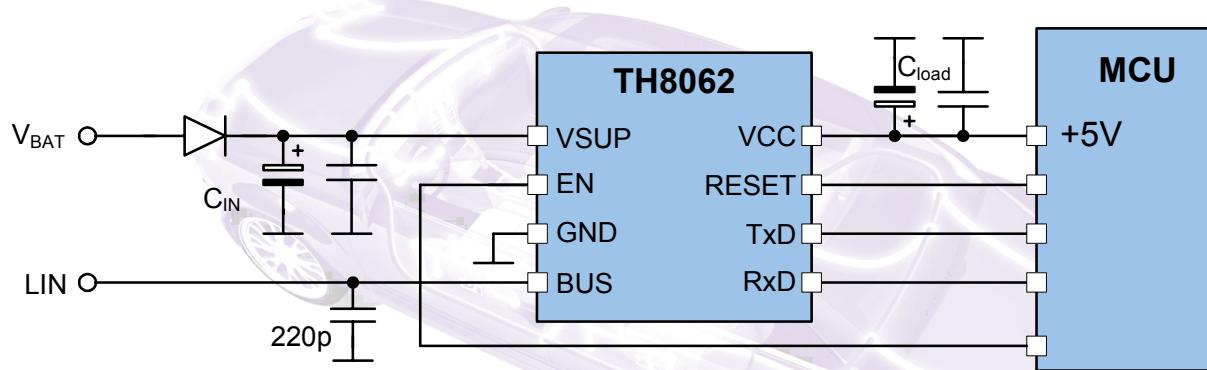
Hall ICs

CMOS Imaging

Silicon MEMS

IR Temperature

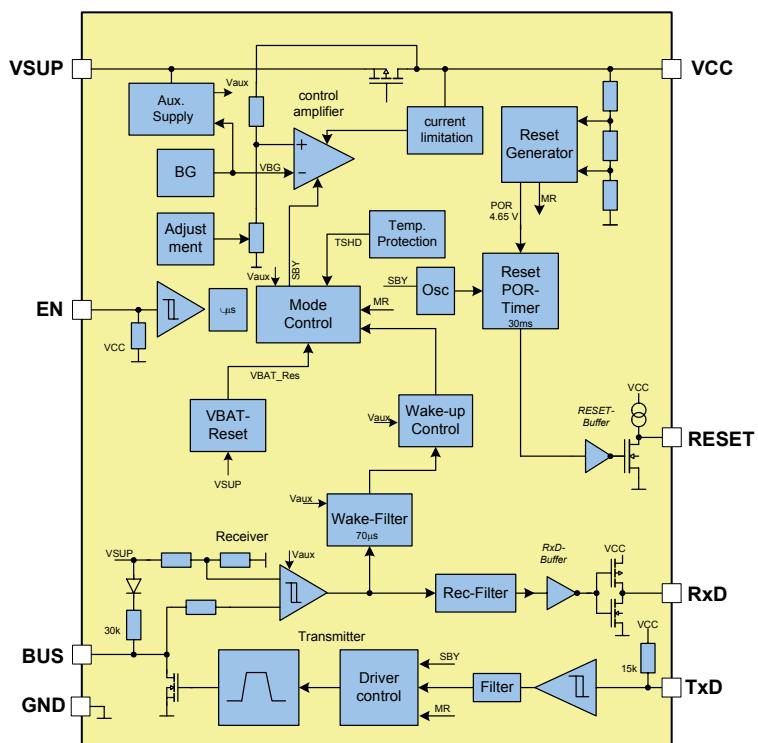
Application Circuitry



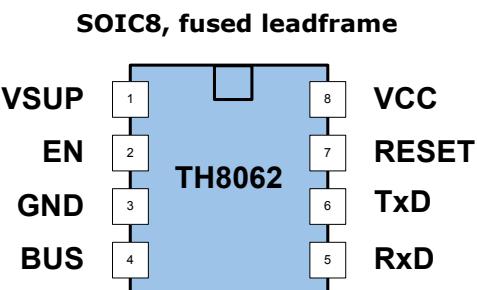
Applications

- All Applications that require a LIN Interface
- Well suited for development of LIN slave ECU modules
- Intelligent Actuator, sensor and switch implementations for Door, Seat, Dashboard, Roof and other submodules

Block Diagram



Pinout



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