LIN BUS TRANSCEIVER WITH INTEGRATED VOLTAGE REGULATOR

910.18

FEATURES

- Supply voltage range VS 5.25V to 18V
- LIN Bus transceiver, up to 20kBaud
- Output driver with slewrate control
- Very low standby current (<30µA typical)
- Bus input voltage range from -24V to +30V (independent of VS)
- Wake up function via bus
- Regulator output voltage 5V, ±1.5%, 100mA, current limitation
- Reset with two programmable reset times (15ms and 100ms) and two reset levels (3.15V and 4.65V)
- Undervoltage recognition, fixed threshold at typ. 7.3V
- Over temperature protection
- Universal comparator with high voltage input
- -40°C to 125°C operating temperature
- SO16w package

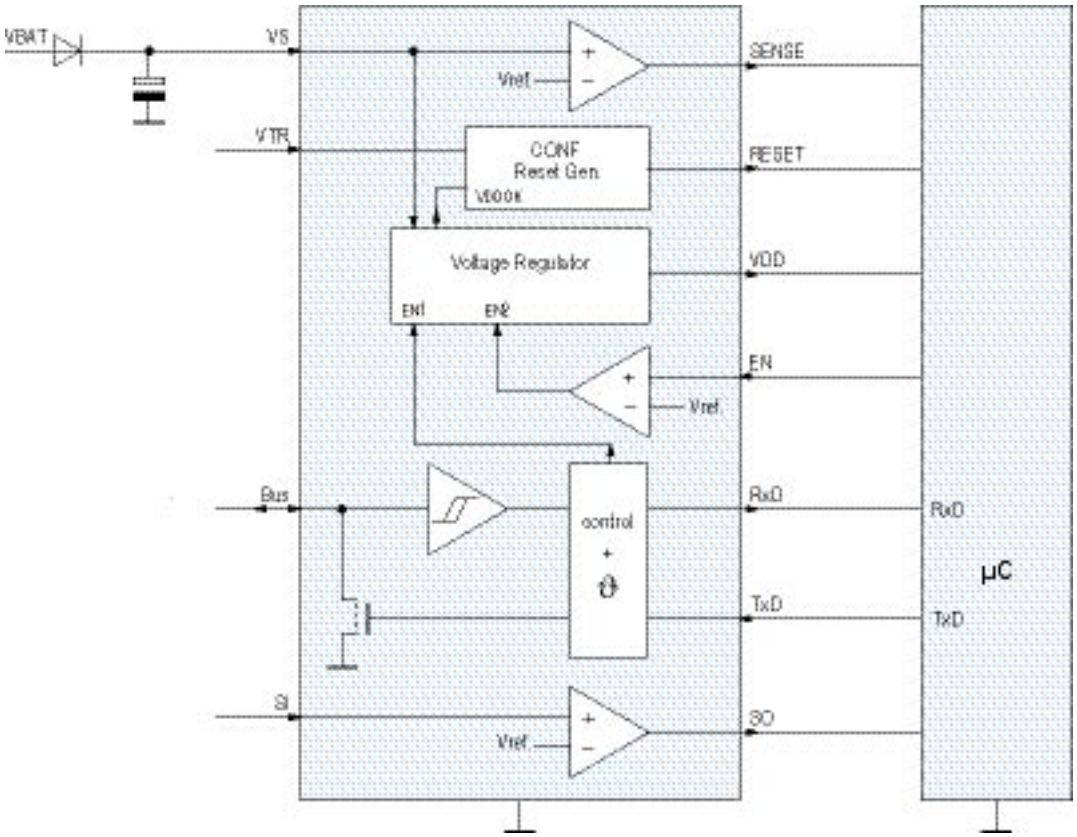
APPLICATIONS

- Automotive bus systems
- Body electronics
- Comfort electronics

DESCRIPTION

The IC is designed to control bidirectional serial data transmission with special standby current-, ambient temperature- and voltage supply requirements. The implemented voltage regulator in combination with the reset function allows a complete power supply for microcontroller including power-on reset and power-down reset. The over temperature protection disables the voltage regulator and the bus driver. After return to normal operation conditions a reset function will be generated.

BLOCK DIAGRAM

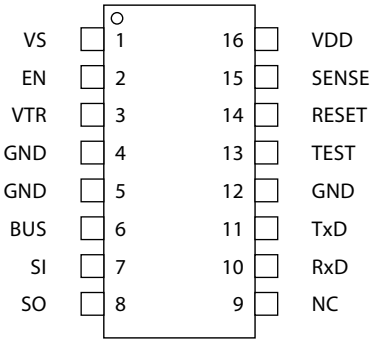


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PACKAGE

SO 16w



PINNING

Pin	Name	Description
1	VS	Positive supply voltage
2	EN	Enable input for VDD
3	VTR	Reset time and threshold select
4	GND	Ground
5	GND	Ground
6	BUS	Send / receive pin
7	SI	Universal comparator input
8	SO	Universal comparator digital output
9	NC	Not connected
10	RxD	Serial data from IC to µC
11	TxD	Serial data from µC to IC
12	GND	Ground
13	TEST	For test only. Connect to GND
14	RESET	Reset output, active Low
15	SENSE	Input voltage monitor
16	VDD	Output 5V /100mA

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