IP Data Sheet

3.3V CAN Transceiver

The TS_CAN_3V3_X8 is a 3.3V CAN transceiver, which supports data rates up to 1Mbps and is compatible with ISO 11898-2 compliant CAN transceivers. It supports a standby mode with wake-up via wake-up pattern. The TS_CAN_3V3_X8 provides a symmetrical output signal on CANL/CANH and incorporates slope-control to improve EMI performance. Power is supplied at 3.3 V, and the IP includes reference and biasing circuits. The output stage can handle an absolute maximum voltage range of +/-58 V.

Technology: XFAB XT018 - 0.18µm HV SOI CMOS

Operating conditions

Parameters	Values
Junction temperature range	-40°C to 150°C
Supply voltage	3.2V to 3.4V
CAN bus common mode voltage range (functional state)	-15V to 15V

Specification

Parameters	Values
Dominant supply current in normal mode	56mA max
Recessive supply current in normal mode	5.5mA max
Supply current in standby mode	4µA max
CANH/CANL recessive output voltage in normal mode	1.8V typical
Dominant differential output voltage in normal mode, (CANH-CANL)	1.9V typical
Recessive differential output voltage in normal mode, (CANH-CANL)	10mV max
Maximum output data rate	1Mbaud
Driver symmetry	0.9V/V to 1.1V/V

Sales & Marketing Contact

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LAYOUT VIEW