

ISO 11898-2

## CAN transceiver supports 5 Mbit/s

Chipanalog (China) supplies the CA-IF1051 family of CAN high-speed transceivers compliant with ISO 11898-2:2016. Supply voltages is 5 V.



*The CAN transceivers feature a default  $\pm 58$ -V overvoltage protection (Source: Chipanalog)*

The introduced CAN (controller area network) transceivers are intended for non-automotive applications. This includes industrial and building automation, HVAC (heating ventilation and air-conditioning) systems as well as vending machines. The components come in an SOIC-8 housing measuring 4,2 mm by 3,9 mm. The chips are designed for use in CAN FD networks supporting the parameters for bit-rates up to 5 Mbit/s. They feature an overvoltage protection of  $\pm 58$ V (CA-IF1051S/VS) or  $\pm 70$ V (CA-IF1051HS).

The products also feature an input common-mode range (CMR) of  $\pm 30$ V. According to the manufacturer, they are suited for applications, in which ground planes from different systems are shifting relative to each other. The transmitter includes a dominant timeout detection (down to 4 kbit/s) to prevent bus lockup caused by controller error or by a fault on the TXD input. In addition, the transceiver family provides a variety of optional functions such as silent-mode to disable the transmitter, low-level translation to interface with low-voltage controllers (CA-IF1051VS).

The components are specified for a temperature range from  $-55$  °C to  $+125$  °C. When they are not powered, the network and other pins provide high impedance (no load). The power up/down with is operated glitch free on network lines and the RXD output. The transceivers support low-power

operation as specified in ISO 11898-5:2007.

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