



**Toshiba starts sample shipments of automotive DC motor driver IC with LIN slave function**

*Compact and efficient device offers the industry's lowest on-resistance*

**Düsseldorf, Germany, 5<sup>th</sup> March 2019** – Toshiba Electronics Europe GmbH has started sample shipments of an automotive DC motor driver IC with a LIN (Local Interconnect Network) slave function that can communicate with a LIN 2.0 master IC for in-vehicle networks. The new TB9058FNG is suitable for many applications requiring up to 0.3A drive current using LIN BUS including heating, ventilation and air conditioning (HVAC) damper control drivers.

One significant advantage of the new driver is that no software development is required, as the IC incorporates the hardware logic of a single-channel H-bridge motor driver and LIN communication function with an enhanced checksum. The integration of the enhanced checksum function allows the LIN 1.3 compliant TB9058FNG to communicate with a LIN 2.0 compliant master IC. The TB9058FNG receives the position data from the motor rotation target via the external LIN BUS, and drives the motor to the rotation target. A variety of communication rates up to 19,200 bps are easily selected in hardware.

The device is energy efficient, offering the industry's lowest on-resistance (2.2Ω High+Low) for an automotive HVAC damper control driver and consumes just 10µA of current when in sleep mode.

Safety functions are inbuilt, and the driver can detect over voltage, over current and over temperature and notify the controller with a flag output.

The TB9058FNG operates from a 7V to 18V supply and has an operating temperature range of -40 to 125°C making it ideally suited to automotive applications and will be AEC-Q100 qualified. Intended for compact applications, it is housed in a tiny (7.8 mm x 7.7 mm) SSOP24 package.

Mass production will start in December 2019.

Follow the link below for more information on the new motor driver IC:

<https://toshiba.semicon-storage.com/eu/product/assp/detail.TB9058FNG.html>

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#### **About Toshiba Electronics Europe**

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#) (Toshiba). TEE offers European consumers and businesses a wide variety of innovative hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Tomoaki Kumagai

For more company information visit TEE's web site at [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com).

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