



## **Toshiba introduces new 50V/3.0A constant current stepper motor driver IC**

*Pin/form-compatible device upgrade enables engineers to increase the power rating of their design while halving  $R_{DS(ON)}$  to significantly reduce waste heat*

**Düsseldorf, Germany, 28<sup>th</sup> January 2025** – Toshiba Electronics Europe GmbH (“Toshiba”) introduces the TB67S559FTG 50V/3.0A stepper motor driver IC that supports constant current control with built-in current detection. Housed in a 5.0mm x 5.0mm QFN32 package, the TB67S559FTG operates over a wide 8.2V to 44V output voltage range to cover 12V, 24V, and 36V applications, including office automation (OA) equipment, point of sale (POS) terminals, vending machines, surveillance cameras, industrial equipment, and more.

The TB67S559FTG represents a significant voltage and current rating upgrade to its pin/function compatible predecessor, the 40V/2.0A [TB67S539FTG](#), and offers an ultra-low on-resistance ( $R_{DS(ON)}$ )  $0.4\Omega$  (typ., covering the upper and lower transistor). When in sleep mode, the device draws a maximum current of  $1\mu\text{A}$ . The new driver IC, therefore, enables engineers to increase the efficiency and reliability of their designs while reducing waste heat.

The TB67S559FTG eliminates the need for external current sense resistors having built-in current detection circuitry. The built-in charge pump circuit does not require an external capacitor. Eliminating the need for these external components enables substantial space saving in the mounting area.

In addition to the TB67S559FTG and the pin/function compatible TB67S539FTG, Toshiba offers an extensive selection of stepper motor drivers manufactured using a BiCD (Bipolar CMOS DMOS) process that ensures high accuracy and high current capability. The driver ICs offer a range of advanced features, covering a broad spectrum of voltage and current ratings, and are available in a wide variety of packages.

For more information on the new TB67S559FTG stepper motor IC, please visit:  
<https://toshiba.semicon-storage.com/eu/semiconductor/product/motor-driver-ics/stepping-motor-driver-ics/detail.TB67S559FTG.html>

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## **About Toshiba Electronics Europe**

[Toshiba Electronics Europe GmbH](#) (TEE) offers European consumers and businesses a wide variety of hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer, and white goods applications. Next to HDDs, the company's broad portfolio encompasses power semiconductors and other discrete devices ranging from diodes to logic ICs, optical semiconductors as well as microcontrollers and application specific standard products (ASSPs) amongst others.

In addition, TEE also offers Toshiba's SCiB™ battery cells and modules with lithium titanium oxide (LTO) for heavy-duty applications and Silicon Nitride (SiN) ceramic substrates used in power semiconductor modules, inverters, and converters for their heat dissipation characteristics and strength.

TEE has its headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing marketing, sales and logistics services.

Visit Toshiba's websites at [www.toshiba.semicon-storage.com](http://www.toshiba.semicon-storage.com), [www.scib.jp/en](http://www.scib.jp/en) and [www.toshiba-tmat.co.jp/en/](http://www.toshiba-tmat.co.jp/en/) for further company and product information.

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