



Toshiba sampling new high-definition microstepping motor driver

High accuracy control of large currents with reduced power consumption

Düsseldorf, Germany, 23rd August 2018 – Toshiba Electronics Europe (“Toshiba”) has announced a new 50 V / 5 A rated bipolar stepping motor driver that supports 1/128 microstepping. The new TB67S128FTG meets the often conflicting requirements of high speed, high performance and reduced power consumption making it ideal for a variety of modern applications including 3D printers, office equipment, cash dispensers, amusement machines and home appliances.

At the heart of the new device is Toshiba’s Active Gain Control (AGC) that optimizes the drive current to suit the required torque, thereby preventing stalling and realizing power savings. Popular in office applications where high accuracy and quiet operation are critical, the TB67S128FTG reduces noise and vibration by delivering 128 microstepping, compared to the 32 steps of other drive ICs. It also incorporates Selectable Mixed Delay (SMD) – a current adjustment function that selects the best SMD configuration and optimizes the drive current to suit the motor.

Toshiba's original current detection technology, Advanced Current Detection System (ACDS) allows the control of motor current without requiring an external current detection resistor, thereby reducing the space required for layout, and the BoM cost.

Higher torque operation is enabled by the high current drive (50V / 5A) while the low on-resistance (0.25Ω) reduces heat generation. The device also incorporates a number of protection functions including thermal shutdown, overcurrent protection and an open detection function that detects motor disconnection. In the event of a fault being detected, error flags are set, ensuring equipment safety.

The TB67S128FTG is packaged in a 9mm x 9mm x 0.9mm, 0.5mm pitch QFN64 package. Samples of the new device are available now.

Follow the link below for more information on the new product.

<https://toshiba.semicon-storage.com/eu/product/linear/motordriver/detail.TB67S128FTG.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](#). 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.

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