



Toshiba launches compact, high-efficiency DC brushed motor driver IC with popular pin-assignment HSOP8 Package

Low-power, single channel H-bridge driver IC offers popular pinout and wide operating voltage range

Düsseldorf, Germany, 6th June 2019 – Toshiba Electronics Europe GmbH has expanded its line-up of DC brushed motor driver ICs with a highly efficient, single-channel H-bridge driver offering a maximum rating of 50V/3.5A and the industry's lowest standby current. Supplied in a compact, HSOP8 surface mount package and featuring a popular pinout, the TB67H450FNG is ideal for new DC brushed motor designs or as a plug-in replacement to improve and upgrade existing applications in addition to offering more product sourcing options.

The device, which is fabricated using Toshiba's BiCD process, can drive brushed motors with voltages from 4.5V to 44V. As a result, it is suitable for a wide variety of industrial and commercial equipment including office automation and banking terminals, white goods, robot vacuum cleaners, and other home appliances. A low standby current consumption of 1µA is achieved as a result of a newly developed power supply circuit that controls the VCC regulator in standby mode. This contributes to saving power in

many modern battery-powered applications such as small household robots and electronic locks as well as devices powered by 5V USB power supplies and improves the battery life of battery powered devices.

Capable of driving DC brushed motors in a total of four constant-current modes (forward, reverse, brake and stop), the TB67H450FNG can deliver up to 50V/3.5A via a low on-resistance (0.6Ω) built-in MOSFET. The highly integrated motor driver IC includes a single H-bridge channel and incorporates several error detection features such as thermal shutdown (TSD), over current detection (ISD) and undervoltage lockout (UVLO). A built-in voltage regulator supports internal circuit operation.

Measuring just 4.9mm x 6.0mm, the new IC minimizes PCB space while offering excellent thermal performance via the inclusion of an E-pad.

Mass production shipments of the TB67H450FNG start today.

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

<https://toshiba.semicon-storage.com/ap-en/product/linear/motordriver/detail.TB67H450FNG.html>

###

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.

Contact details for publication:

Toshiba Electronics Europe GmbH, Hansaallee 181, D-40549 Düsseldorf, Germany

Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 79197

Web: www.toshiba.semicon-storage.com/eu/company/news.html

E-mail: solution-marketing@toshiba-components.com

Contact details for editorial enquiries:

Michelle Shrimpton, Toshiba Electronics Europe GmbH

Tel: +44 (0)193 282 2832

E-mail: MShrimpton@teu.toshiba.de

Issued by:

Birgit Schöniger, Publitek

Tel: +44 (0) 20 8429 6554

Web: www.publitek.com

E-mail: birgit.schoeniger@publitek.com

June 2019

Ref. 7221/A