



Toshiba Launches High-Voltage Multi-Channel Solenoid and Unipolar Motor Driver IC

Thermally efficient design is suitable for a wide variety of applications

Düsseldorf, Germany, 26 September, 2017 – Toshiba Electronics Europe (TEE) today announced the launch of a multi-channel solenoid and unipolar motor driver IC (TB67S111PG) that delivers high-voltage and low ON resistance drive.

TB67S111PG incorporates four channels each consisting of one low-side MOSFET and a free-wheeling diode connected to drain. This enables it to control each channel independently and realises a design that is suited to driving the solenoids and unipolar motors that are widely used in applications such as slot machines and home appliances (refrigerators), industrial equipment (vending machines, banking terminals, ATMs) and office and factory automation equipment.

Fabricated with the latest high-voltage analog power process (BiCD 130nm), the motor driver IC offers an output rating of 80V at 1.5A per channel. Power dissipation is minimised by an output ON resistance of 0.25Ω.

Thermal and overcurrent shutdown circuits protect and automatically reset IC operation after a specified time. There is also a built-in thermal shutdown flag output. The device supports power-on sequencing for a single power drive.

The IC is packaged in a thermally dissipative H-frame DIP16-P-300-2.54A package that can be mounted on low-cost paper phenol board and on a general glass-epoxy board.

Sample are available and mass production is imminent.

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About Toshiba Electronics Europe

[Toshiba Electronics Europe](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers a broad IC and discrete product line including high-end memory, microcontrollers, ASICs and ASSPs for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions as well as storage products including HDDs, SSDs, SD Cards and USB sticks.

TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr Akira Morinaga. For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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September 2017

Ref. 7035/A