Toshiba BiCD Process Integrated Circuit Silicon Monolithic

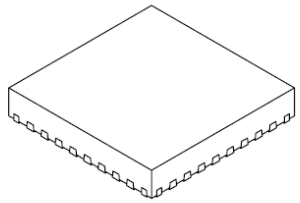
TB67S539FTG

BiCD Constant-Current Two-Phase Bipolar Stepping Motor Driver IC

The TB67S539FTG is a two-phase bipolar stepping motor driver using a PWM chopper.

Fabricated with the BiCD process, the TB67S539FTG is rated at 40V/2.0A (Absolute maximum ratings).

A stepping motor can be operated with a single VM power supply by built-in regulator.



P-VQFN32-0505-0.50-004

Weight: 0.066 g (typ.)

Features

- BiCD process monolithic IC.
- Capable of controlling bipolar stepping motor.
- Advanced Current Detect System (ACDS) realizes a PWM constant-current control without external current detection resistors.
- Advanced Dynamic Mixed Decay (ADMD) realizes a high efficiency PWM constant-current control.
- Clock input control.
- Operational in full, half, quarter, 1/8, 1/16, and 1/32 step resolutions.
- BiCD process: Use DMOSFET for the output power transistor.
- High withstand voltage and large current drive: 40 V / 2.0 A (Absolute maximum ratings).
- Built-in thermal shutdown (TSD), over-current detection (ISD), and under voltage lockout (UVLO).
- External components for a charge pump are reduced.
- Package: QFN32 (5 mm × 5 mm).

Start of commercial production
2021-08

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