



## Product Overview

### STK672-543-E: Motor Driver, 2-Phase, Full and Half Stepping, Unipolar

For complete documentation, see the data sheet

#### Product Description

The STK672-543-E is a unipolar fixed-current chopper type 2-phase stepping motor driver hybrid IC. It features power MOSFETs in the output stage and a build-in phase signal distribution IC. The incorporation of a phase distribution IC allows the STK672-543-E to control the speed of the motor based on the frequency of an external input clock signal. It supports two types of excitation for motor control: 2-phase excitation and 1-2 phase excitation. It also provides a function for switching the motor direction. And it is improvement version for noise-resistant of STK672-540.

#### Features

- The motor speed can be controlled by the frequency of an external clock signal
- The excitation type is switched according to the state of the MODE pin
- A motor direction switching pin is provided
- Current detection resistor is built in
- 8-pin packages

#### Benefits

- Easy to motor speed control
- Easy to switch excitation type
- Easy to switch a motor direction
- Reduce the mounting area on PCB
- Unlikely to release smoke or cause fires

#### Applications

- Computing & Peripherals
- Industrial
- Medical

#### End Products

- Multi-Function Printer
- Auto Trading Machine
- Slot Machine
- Vending Machine
- Blood Analyzer

#### Part Electrical Specifications

Product	Compliance	Status	Type	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Step Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	R <sub>DS(on)</sub> Typ (Ω)	Package Type
STK672-543-E	Pb-free	Active	Stepper	10	42	4.75	5.25	4	10	1/2	Clock	None	Fully Integrated	No				SIP-10

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