

## Product Overview

### STK681-360-E: Motor Driver, DC, Forward / Reverse, with Brush

For complete documentation, see the data sheet.

STK681-360-E is a forward/reverse motor driver thick film hybrid IC. It is designed for current control of DC brush motors. It allows forward, reverse, and brake operations in accordance with the external input signal. The peak startup output current is 5.8A and the peak brake output current is 8A. It has a current sensing resistor (0.05Ω) built-in, and we can space-saving design easily. And it obviates the need to design for the dead time in order to turn off the upper and lower drive devices when switching between the forward and reverse operation mode.

#### Features

- Built-in current sensing resistor
- Built-in over-heat protection
- Built-in over-current protection
- turn off the upper and lower drive devices when switching between the forward and reverse operation mode

#### Benefits

- Fixed current control is possible
- Suppresses current drain when overheating state occurs
- Suppresses current drain when over-current state occurs
- No need for dead time design

#### Applications

- Computer & Peripherals
- Industrial

#### End Products

- Mult Function Printer
- Bar code Printer
- Slot Machine
- Industrial Robot

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	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> Min (A)	I <sub>O</sub> Peak Max (A)	Control Type	Current Sense	Package Type
STK681-360-E	4.6666	Pb-free	Active	10	52	4.75	5.25	5.8	8	PWM	Fully Integrated	SIP-19

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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