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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Instruction Manual for Evaluation Board of The TB6642FG

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【Outline】

The TB6642FG is a brushed DC motor driver corresponding to the direct PWM control system.

BiCD process is adopted. Ratings of 50V and 4.5A (@ Power supply voltage (VM) ≤ 36V) are realized. When the power supply voltage (VM) is more than 36V, please use the IC by configuring the current range of 4.0A or less.

This evaluation board mounts necessary components to evaluate the IC.

Brushed DC motor can be controlled by the direct PWM drive.

Please sense controllability of a brushed DC motor by applying the TB6642FG.

【Note】

In using, please be careful about the thermal condition sufficiently.

For each control signal, please refer to the IC specifications by accessing to the following URL:

<http://toshiba.semicon-storage.com/ap-en/product/linear/motordriver/detail.TB6642FG.html>

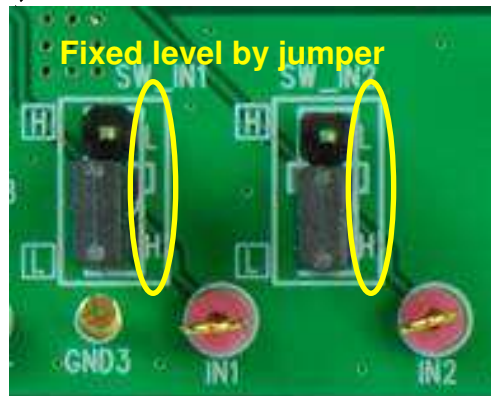
Further, the application of this evaluation board is limited to the purpose of evaluating and learning the motor control. Please do not ship them to a market.

Setting Evaluation Board

Setting motor operation



【Enhanced figure of jumper part】



Jumper indicated on the left is adopted on this evaluation board to set operation of the TB6642FG. To select the function by the jumper, supply the voltage of high level by VDD pin. In the left figure, fixed level of the silk near the jumper is indicated inside the white frame. Please change the short position according to the configuration of the usage function. In case of inputting the signal externally, please remove the short pin.

Circuit of Evaluation Board

