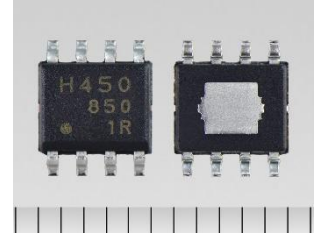


Launch of low power consumption brushed DC motor driver IC with popular pin-assignment HSOP8 package

Toshiba Electronic Devices & Storage Corporation ("Toshiba") has launched "TB67H450FNG," the latest addition to its line-up of brushed DC motor driver ICs. The new product with a maximum rating of 50V/3.5A [Note 1] drives motors with a wide range of operating voltage. It also offers a small HSOP surface mount package with a popular pin-assignment that enhances the product sourcing possibility. Mass production starts today.



Three features

- Wide range of operation voltage: From 4.5V to 44V for large-current drive devices
- Low standby current consumption: IM=1μA (max) @VM=24V, Ta=25°C
- Small 8-pin surface mount package HSOP8 with a popular pin-assignment and with bottom side E-pad to enhance thermal dissipation

Applications

Industrial equipment including OA equipment and banking terminals; home appliances including robot vacuum cleaners; battery powered devices (electronic locks and household small robots), and devices using 5V USB power supplies

Product specifications

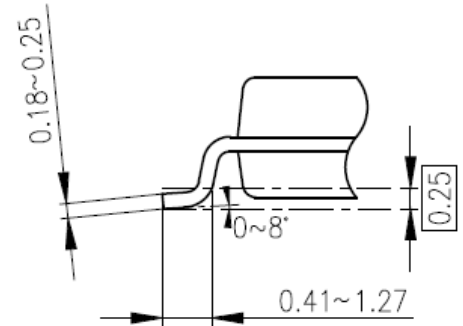
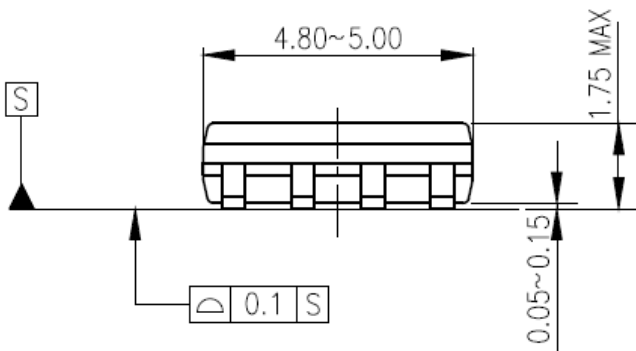
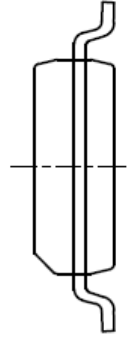
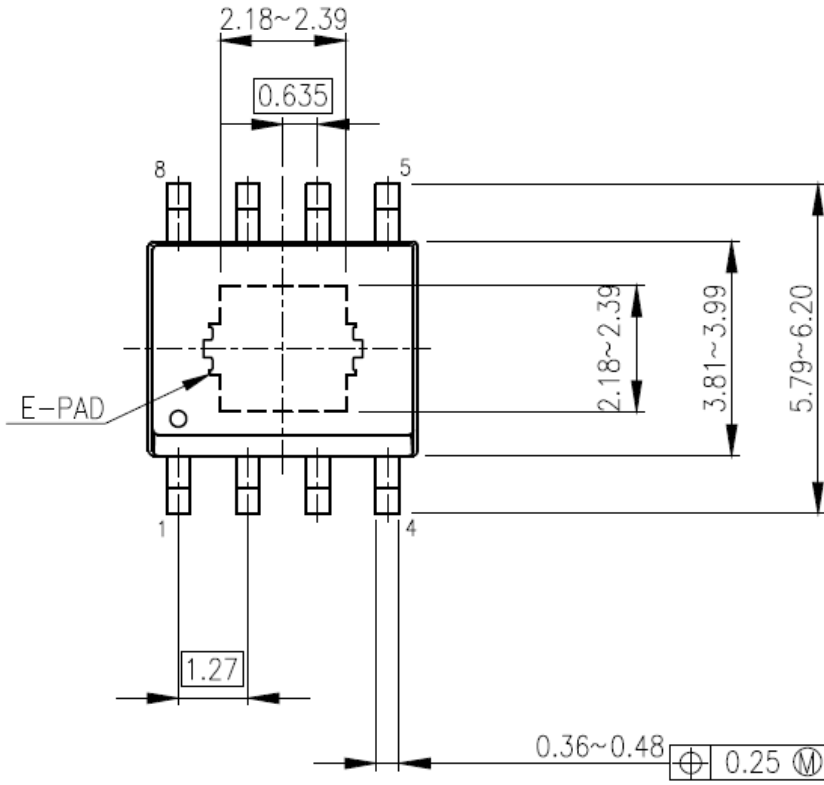
Part Number	TB67H450FNG
Number of H-bridge channels	1ch
Motor to apply	Brushed DC motor
Supply voltage	Maximum rating 50V, operating range 4.5V to 44V
Output voltage/current (Absolute maximum rating)	50V/3.5A
Output on-resistance (upper + lower)	0.6Ω (typ.) @VM=24V, Ta=25°C
Output switching	tr=60 ns (typ.), tf=80 ns (typ.) (Support PWM control with 400 kHz)
Safety function	Over current detection, thermal shutdown, and under voltage lockout
Package	HSOP8 (Size: 4.9 mm × 6.0 mm)
Other features	Standby current consumption: 1μA (max) Constant-current control (constant current PWM control) Support forward/reverse/stop control
Stock check & purchase	Buy Online

Note 1: Actual driven motor current depends on the use environment and such factors as ambient temperature and power supply voltage.

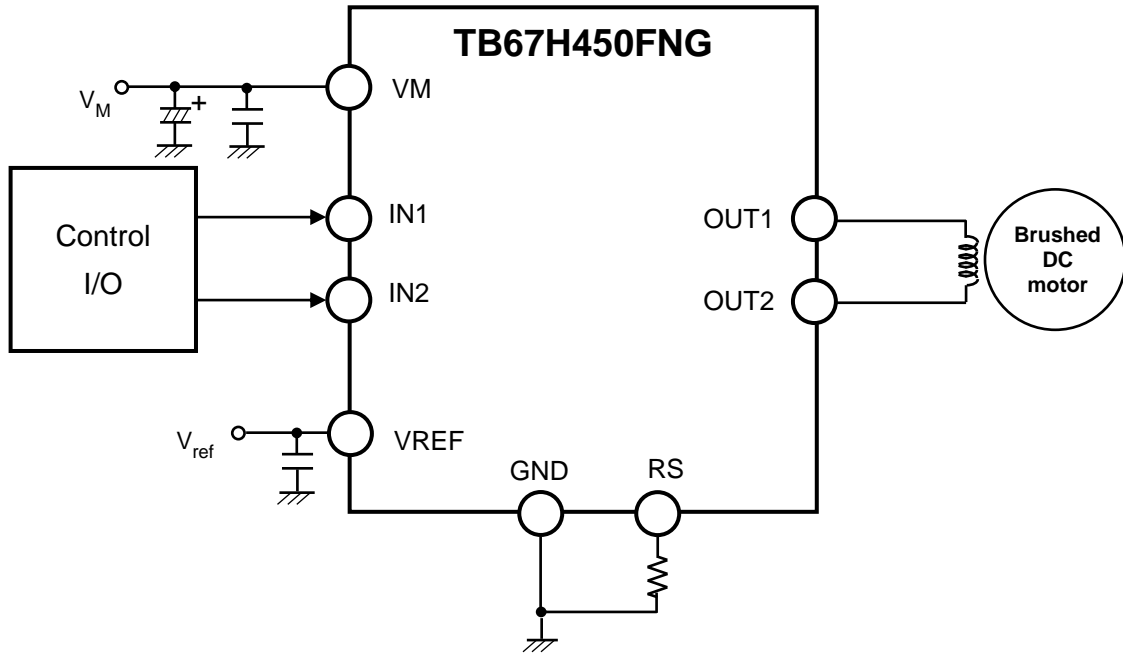
Package

P-HSOP8-0405-1.27-001

Unit: mm



Example of Application Circuit



Note: The application circuit is provided for reference purposes only. Especially, thorough evaluation is required on the phase of mass production design. Providing these application circuit examples does not grant a license for industrial property rights.

Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for.