

## 1.5A, Low Voltage H-Bridge Motor Drive

### FEATURES

- Support the input voltage range:  
Motor power: 1.8V~12V  
Control power supply: 1.8V~7V
- LDMOS  $R_{DS(ON)}$  (HS+LS) 650m $\Omega$  (typical)
- Ultra-low power sleep mode
- 45nA (typical) VM sleep mode current
- 17nA (typical) VCC sleep mode current
- Maximum 1.5A current output capacity
- Built-in UVLO Protection
- Built-in Over Temperature Protection
- Built-in Short Circuit Protection
- Built-in Over Current Protection
- Built-in Charge Pump
- TMI8837: DFN2x2-8 package
- TMI8837S: SOP8 package

### GENERAL DESCRIPTION

TMI8837 and TMI8837S are low voltage DC motor driver IC. Internal integration 650m $\Omega$  (HS+LS typical) H bridge NMOS switch, which can support the 1.8V~12V input voltage range. The maximum current capacity is up to 1.5A, support for ultra-low power sleep mode; built-in UVLO, Thermal Shutdown, OCP protection circuit. TMI8837 and TMI8837S can be used in camera, toys and consumer products.

### APPLICATIONS

- Cameras
- Toys
- Consumer Products

### TYPICAL APPLICATION

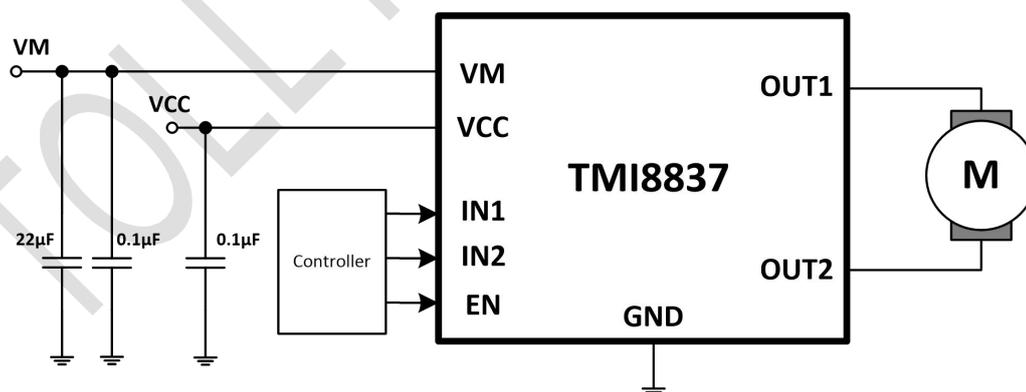


Figure 1. Basic Application Circuit