

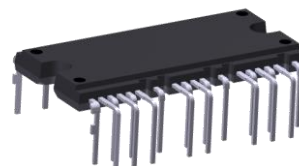
## 600V/6A 3-PHASE FULL-BRIDGE DRIVER (INTELLIGENT POWER MODULE)

### 1.DESCRPTION

SDM06C60TA2 is a 3-phase brushless DC motor driver with high integration and high reliability for low power inverter driving such as fan, pump and refrigerator. It has embedded six low-loss IGBTs and 3-phase half-bridge gate drivers with high voltage.

The under voltage, short circuit protections and temperature output integrated make the circuit work safely in a wide range. The current of each phase can be detected separately because there is one independent negative DC terminal for each phase.

SDM06C60TA2 uses high-insulation design, compact package and carries heat easily, which makes it easy to use especially for compact installation applications.



DIP-25B

### 2.FEATURES

- ◆ Built-in low-loss 600V/6A IGBTs
- ◆ Built-in high-voltage integrated circuit of gate driver
- ◆ Built-in under voltage protections, over current protection and temperature output
- ◆ Built-in shut-down input
- ◆ Built-in inter-lock function
- ◆ Built-in bootstrap diode with current limiting resistor
- ◆ Compatible with 3.3V, 5V MCU interface, active high
- ◆ Three independent negative DC terminals for inverter current detection
- ◆ Isolation rating: 1500V<sub>rms</sub>/min

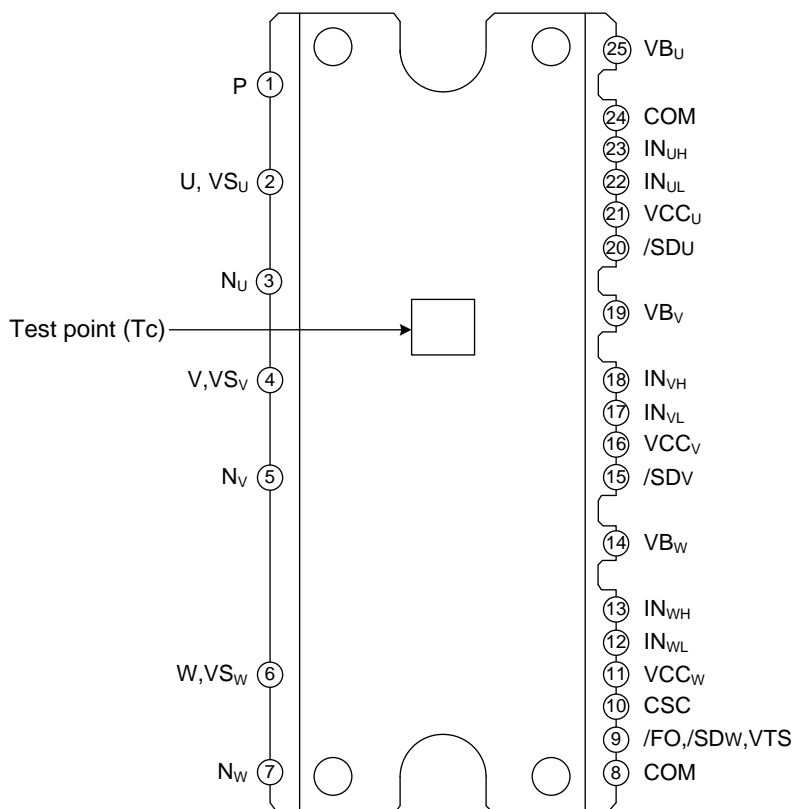
### 3.APPLICATIONS

- ◆ Fan
- ◆ Pump
- ◆ Refrigerator

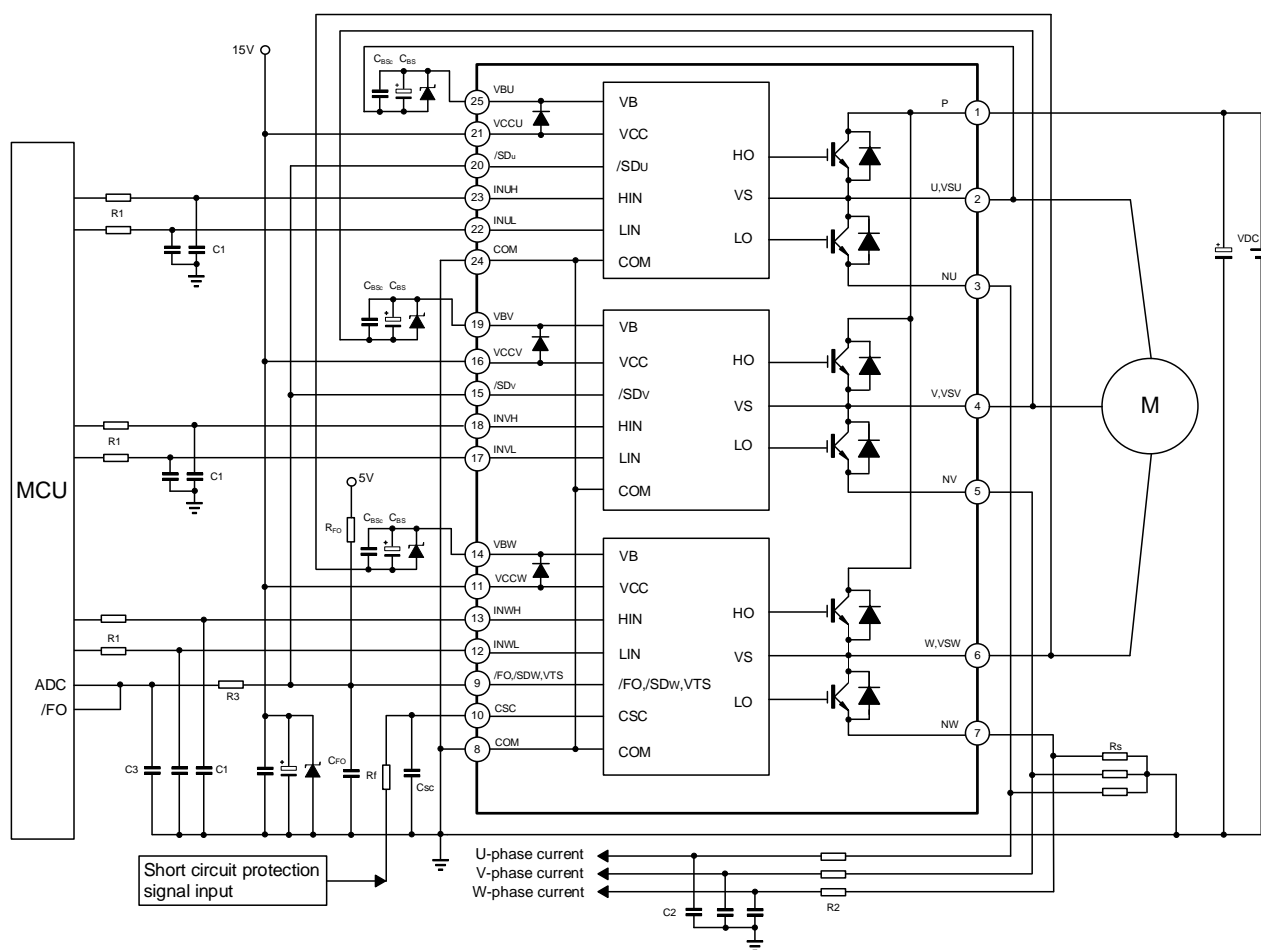
### 4.ORDERING INFORMATION

| Part No.    | Package | Marking     | Hazardous<br>Substance Control | Packing Type |
|-------------|---------|-------------|--------------------------------|--------------|
| SDM06C60TA2 | DIP-25B | SDM06C60TA2 | Halogen Free                   | Tube         |

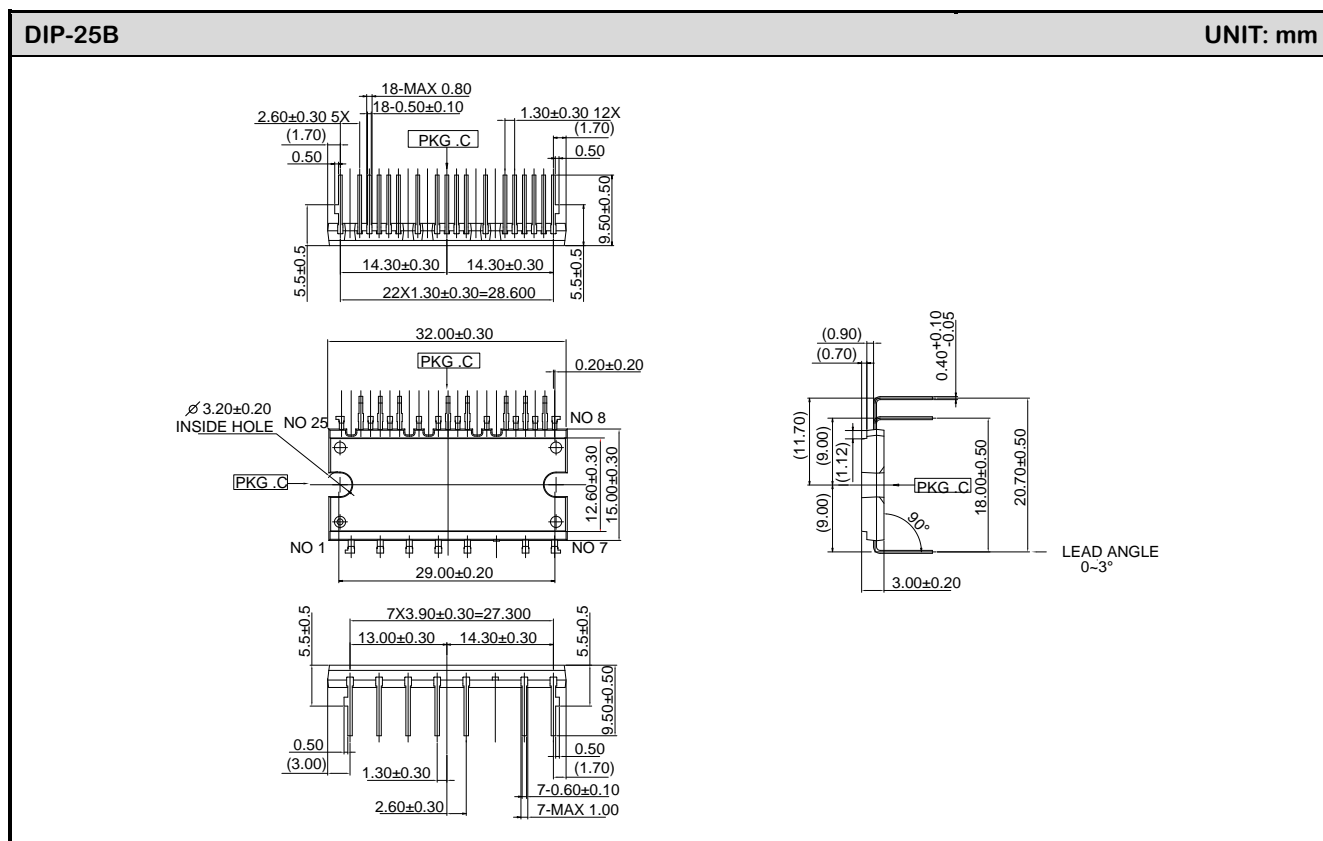
## 5. PIN CONFIGURATION



## 6.TYPICAL APPLICATION CIRCUIT



## 7. PACKAGE OUTLINE



### Important notice :

1. The instructions are subject to change without notice!
2. Customers should obtain the latest relevant information before placing orders and should verify that such information is complete and current. Please read the instructions carefully before using our products, including the circuit operation precautions.
3. Our products are consumer electronic products or the other civil electronic products.
4. When using our products, please do not exceed the maximum rating of the products, otherwise the reliability of the whole machine will be affected. There is a certain possibility of failure or malfunction of any semiconductor product under specific conditions. The buyer is responsible for complying with safety standards and taking safety measures when using our products for system design, sample and whole machine manufacturing, so as to avoid potential failure risk that may cause personal injury or property loss.
5. It is strongly recommended to identify the trademark when buying our products. Please contact us if there is any question.
6. Product promotion is endless, our company will wholeheartedly provide customers with better products!
7. Website: <http://www.silan.com.cn>