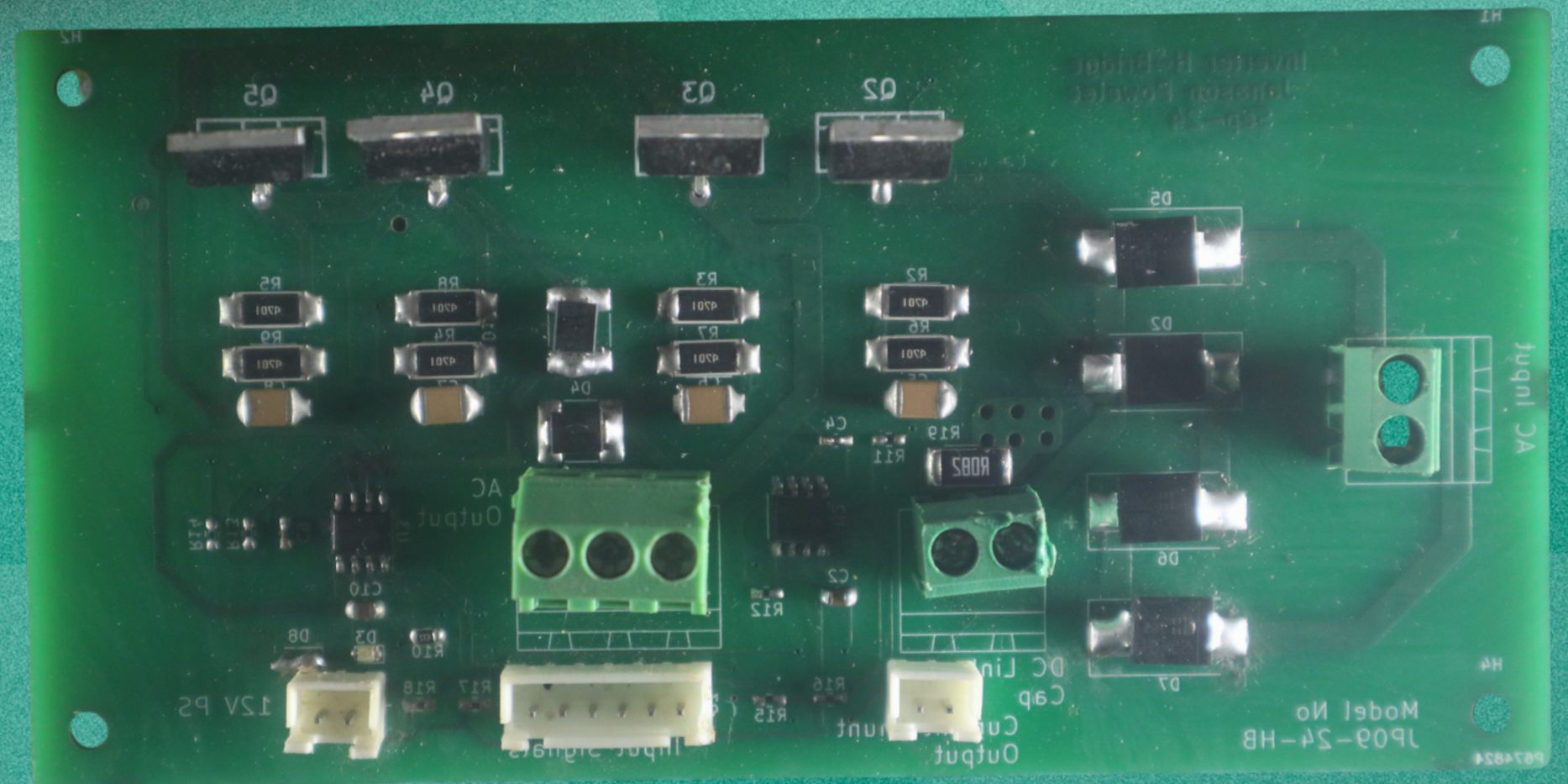


H-BRIDGE

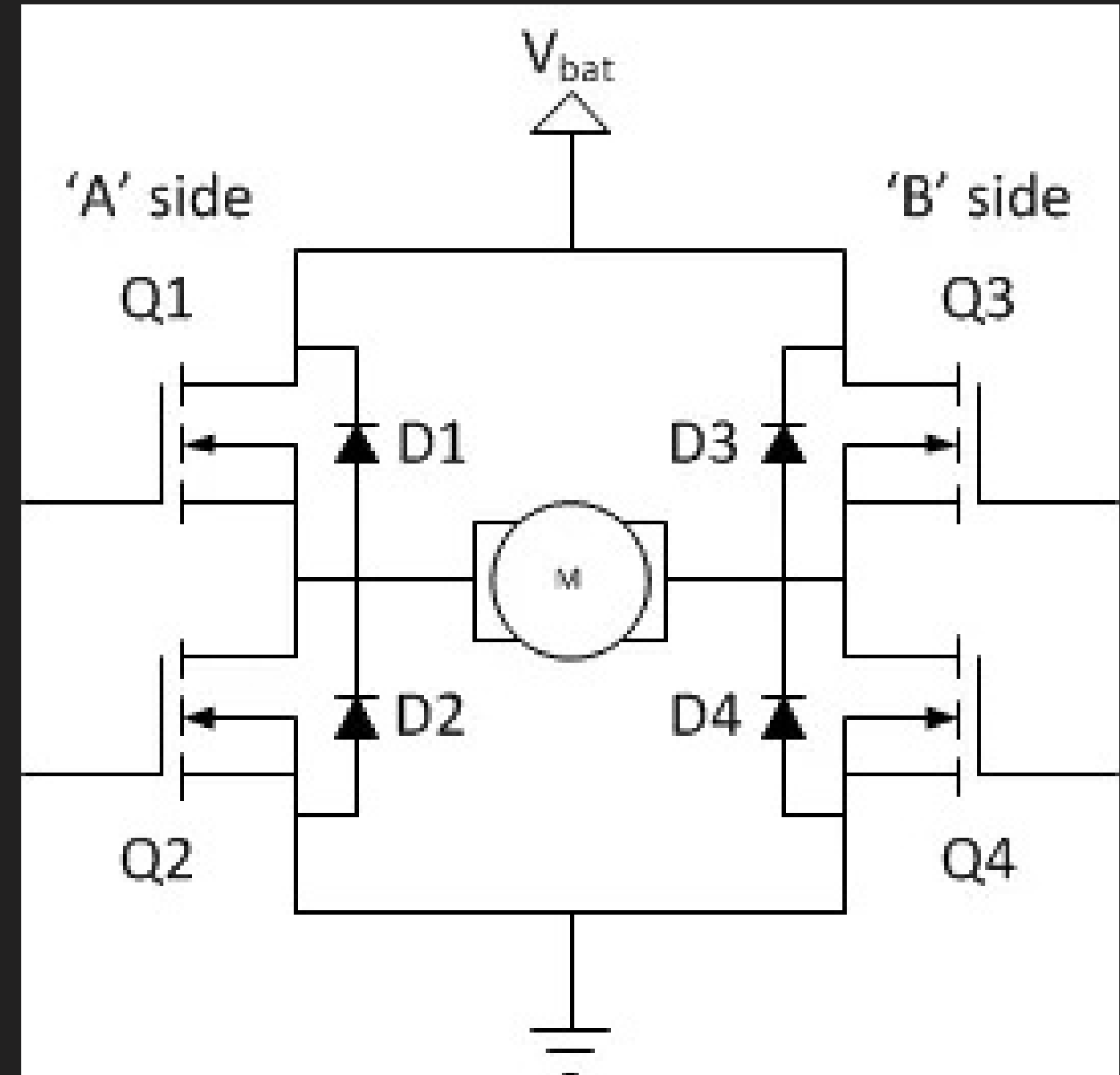
FOR MOTOR CONTROL

800V High Voltage H-Bridge Driver Module with
PWM Control & Current Sensing



APPLICATION

- DC Speed & Direction Control
- DIY Inverter projects
- Robotics (Wheeled Robots, AGVs)
- Solar Pump Controllers
- Industrial Motor Prototyping
- Electric Vehicle Subsystems
- Automated Gates & Actuators



SPECIFICATION

800V 8A MOSFETs

Input : AC/DC

TVS Diode Protection for
input and output

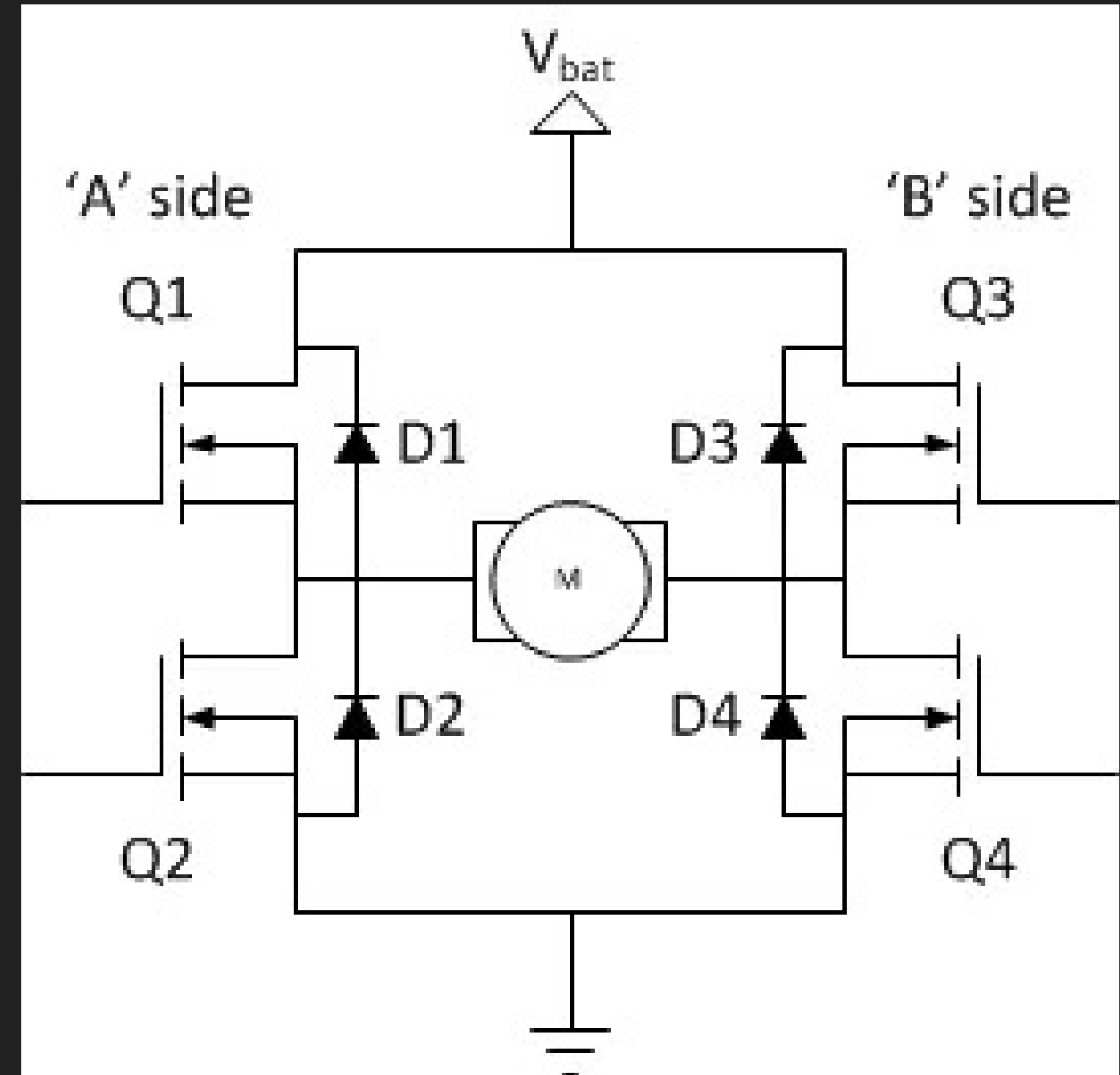
MOSFETS are driven by
High-Low Side Drivers

Shun at the negative line for
current measurement and control

Control Voltage 3.3V / 5V compatible

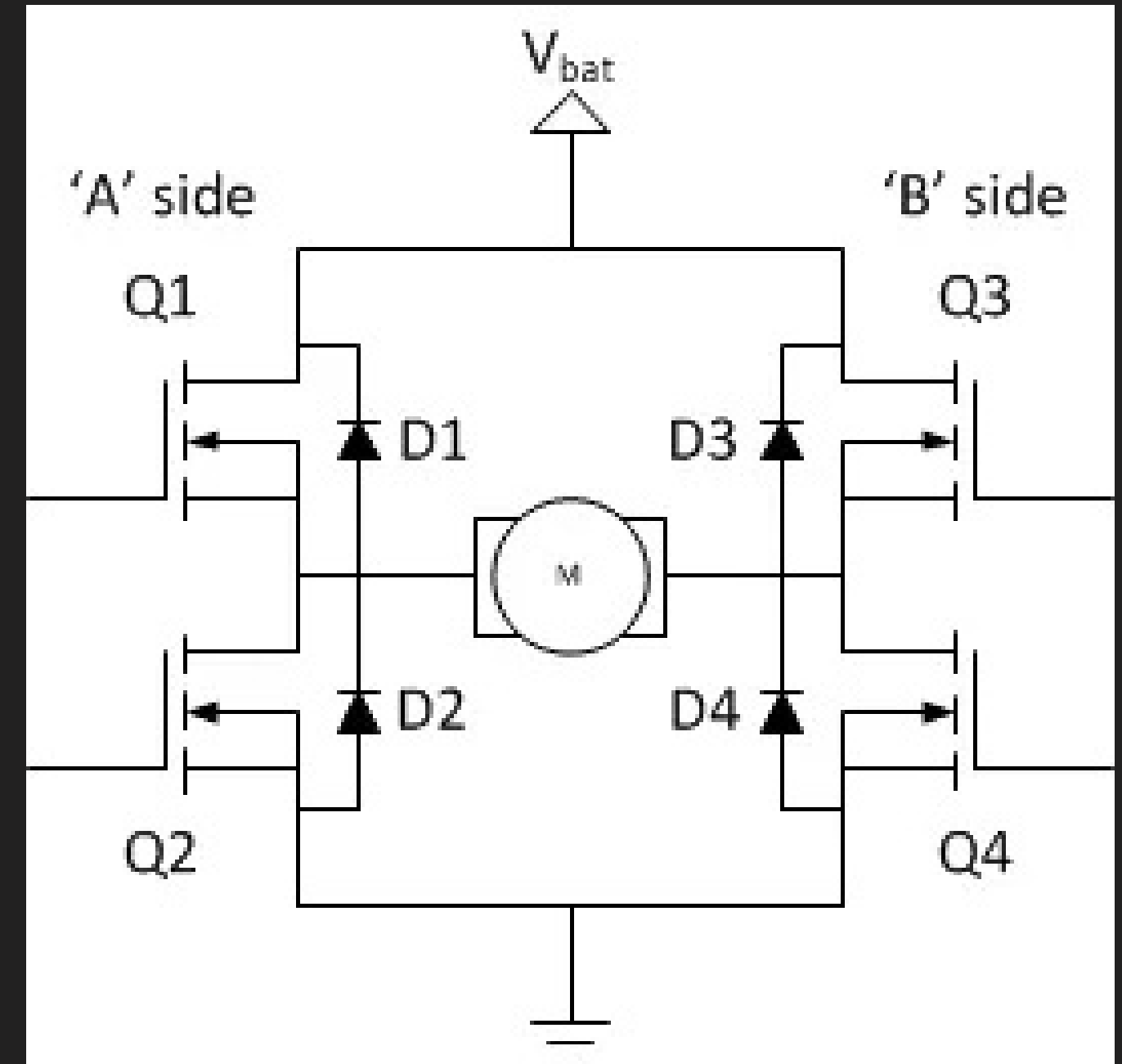
PWM Frequency Range (e.g., up to 20 kHz)

Size: 130 x 65 mm



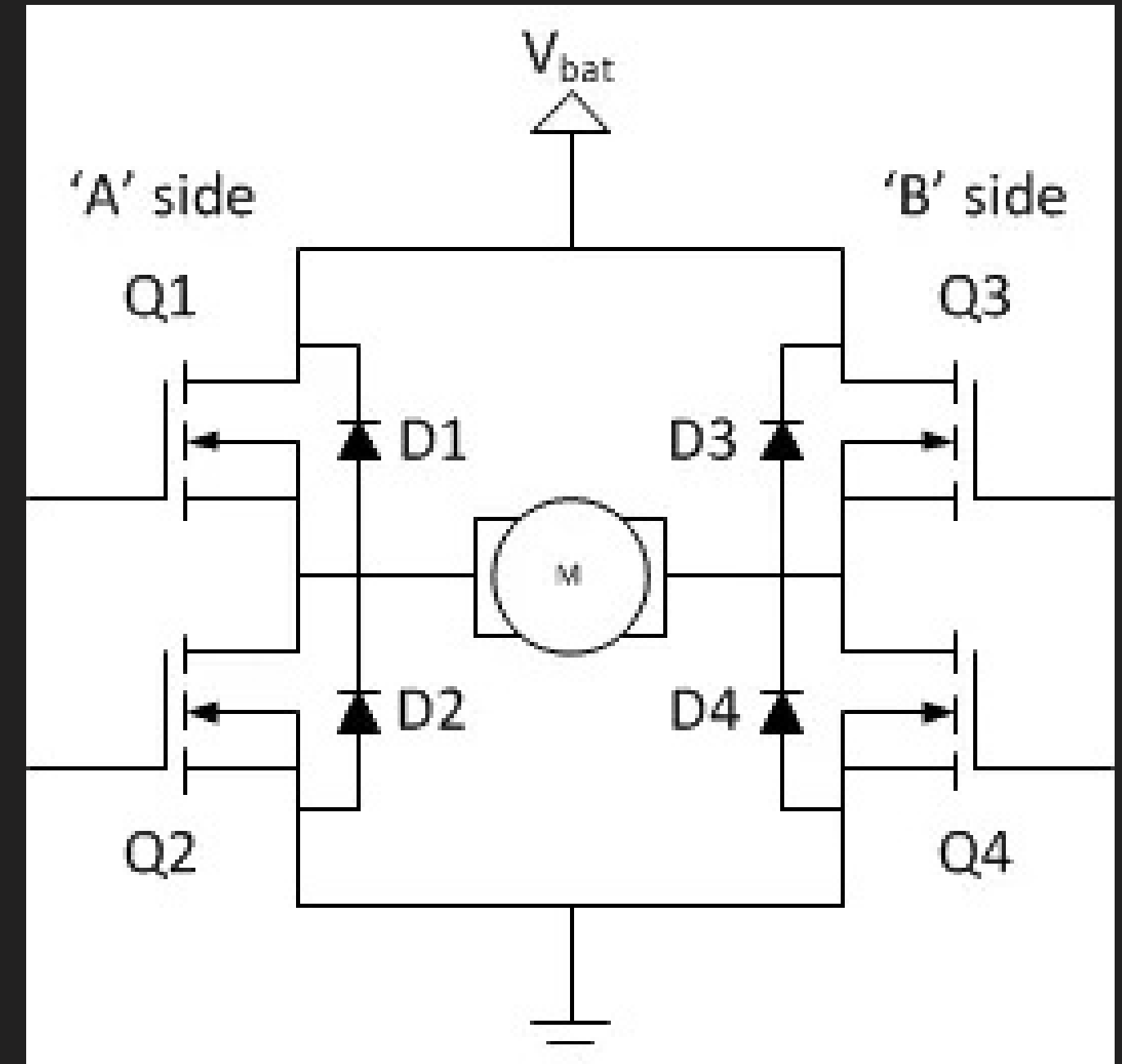
SPECIFICATION

- **High Voltage H-Bridge up to 800V**
- **Integrated High/Low Side Gate Drivers**
- **Built-in Current Sensing (Shunt)**
- **TVS Protection on Input & Output**
- **Supports PWM Control**
- **Compact & Ready-to-Use Module**



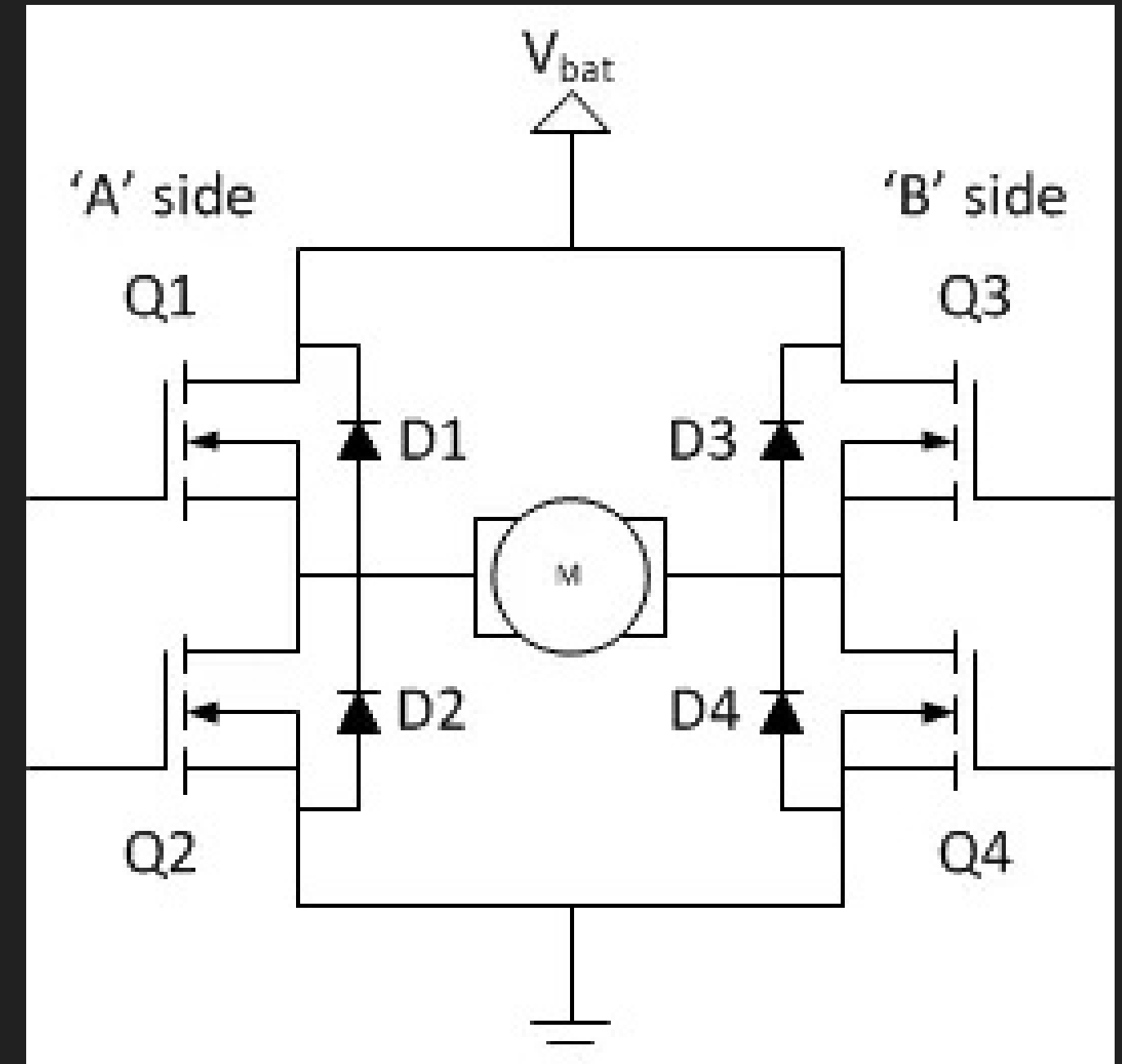
HOW TO USE

- **Connect DC supply to VIN terminals**
- **Connect the motor/load to the output terminals**
- **Provide a PWM signal to control speed**
- **Use direction pins to change rotation**
- **Ensure proper heat dissipation for high loads**
-

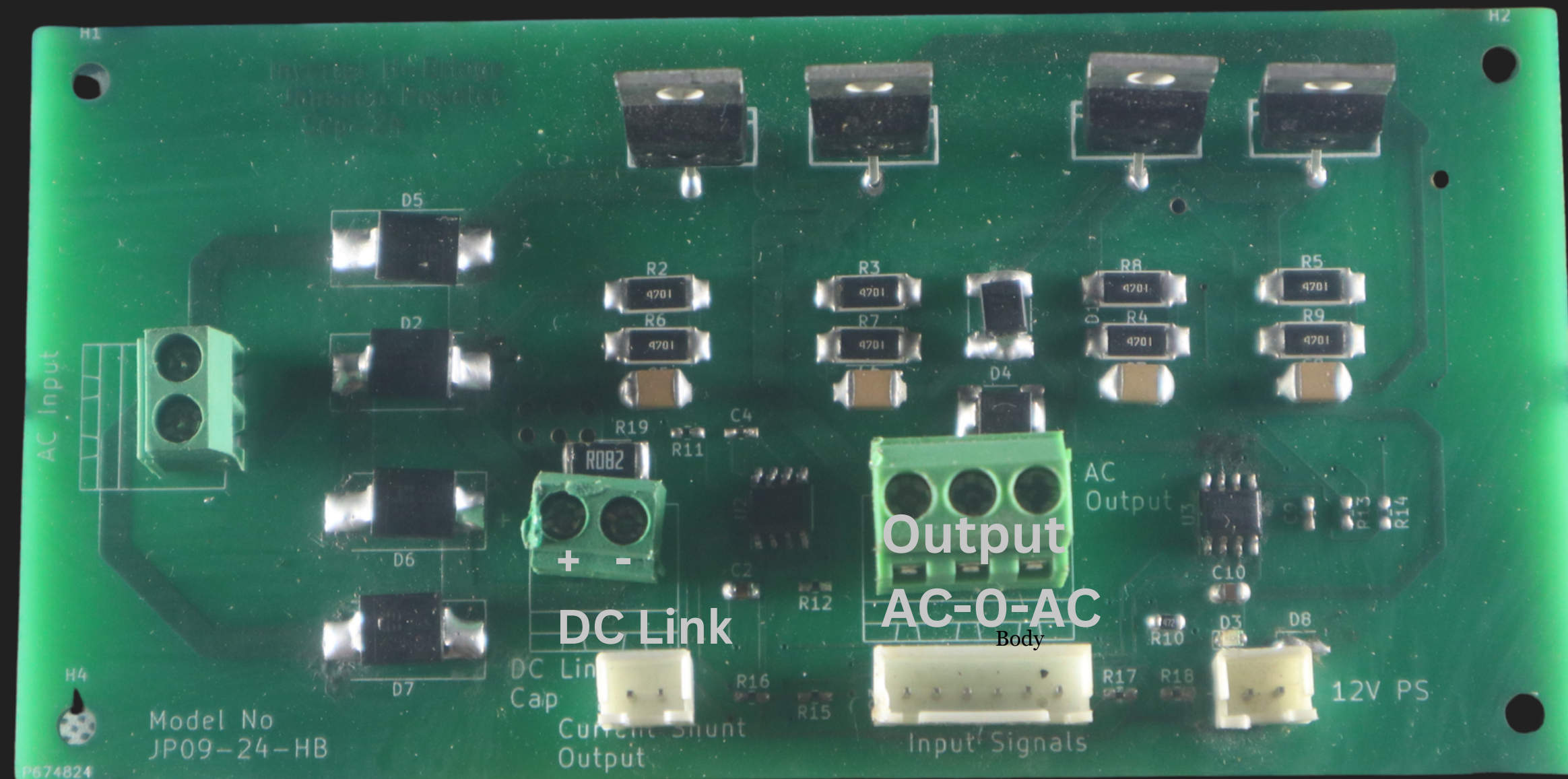


NOTES

- Ensure proper heat sinking for high current operation
- Do not exceed rated voltage/current
- Use proper isolation when working with high voltage
- Avoid shoot-through by proper PWM control
-



AC/DC Input



Control Inputs

1. Ground
- 2.. NC
- 3.Q2 Input
- 4.Q1 Input
- 5.Q4 input
- 6.Q3 Input

- - +
Shunt
Feedback

1 2 3 4 5 6
Signal

+ -1
12V