



# **SPI Programmable 10 A H-Bridge Brushed DC Motor Driver**

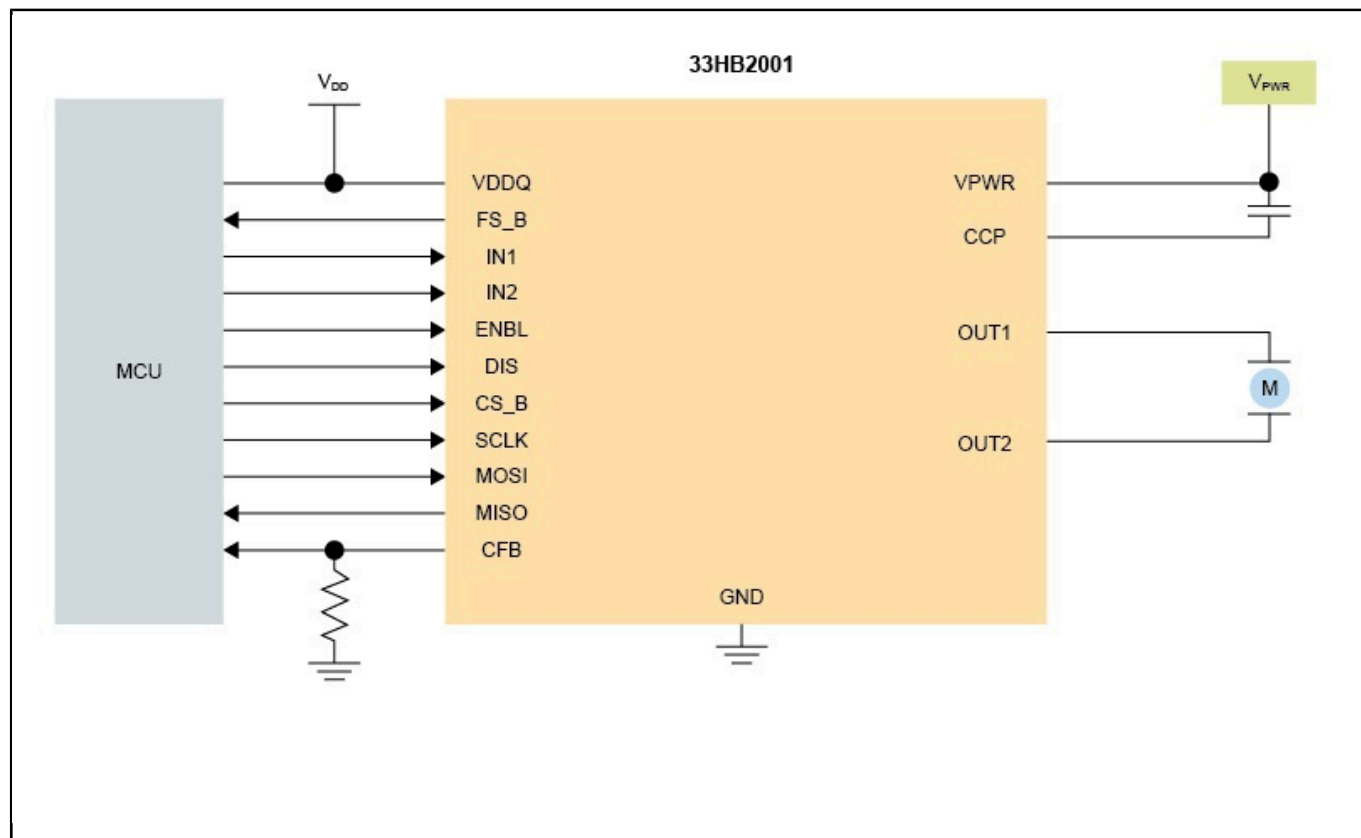
## **HB2001**

Last Updated: Jun 17, 2025

In line with the green revolution, electric motor control is moving very quickly in the direction of higher efficiency for motor drivers. The HB2001 unique features provide:

- **Safety and Protection:** First NXP® H-Bridge motor driver designed using ISO 26262 processes in support of ASIL level C and D system qualification.
- **Efficient thermal management:** Integrated MOSFETs with temperature dependent current limit scheme to prevent excessive heating of device.
- **Scalability:** SPI programmable current limits and slew rates enable the use of the same motor driver for various motor sizes.

## SPI Programmable 10 A H-Bridge Brushed DC Motor Driver Block Diagram



View additional information for [SPI Programmable 10 A H-Bridge Brushed DC Motor Driver](#).

**Note:** The information on this document is subject to change without notice.

**www.nxp.com**

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.