



MC34931/S H-Bridge, Brushed DC Motor Driver, 5–36 V, 5 A, 11 kHz/20 kHz

MC34931

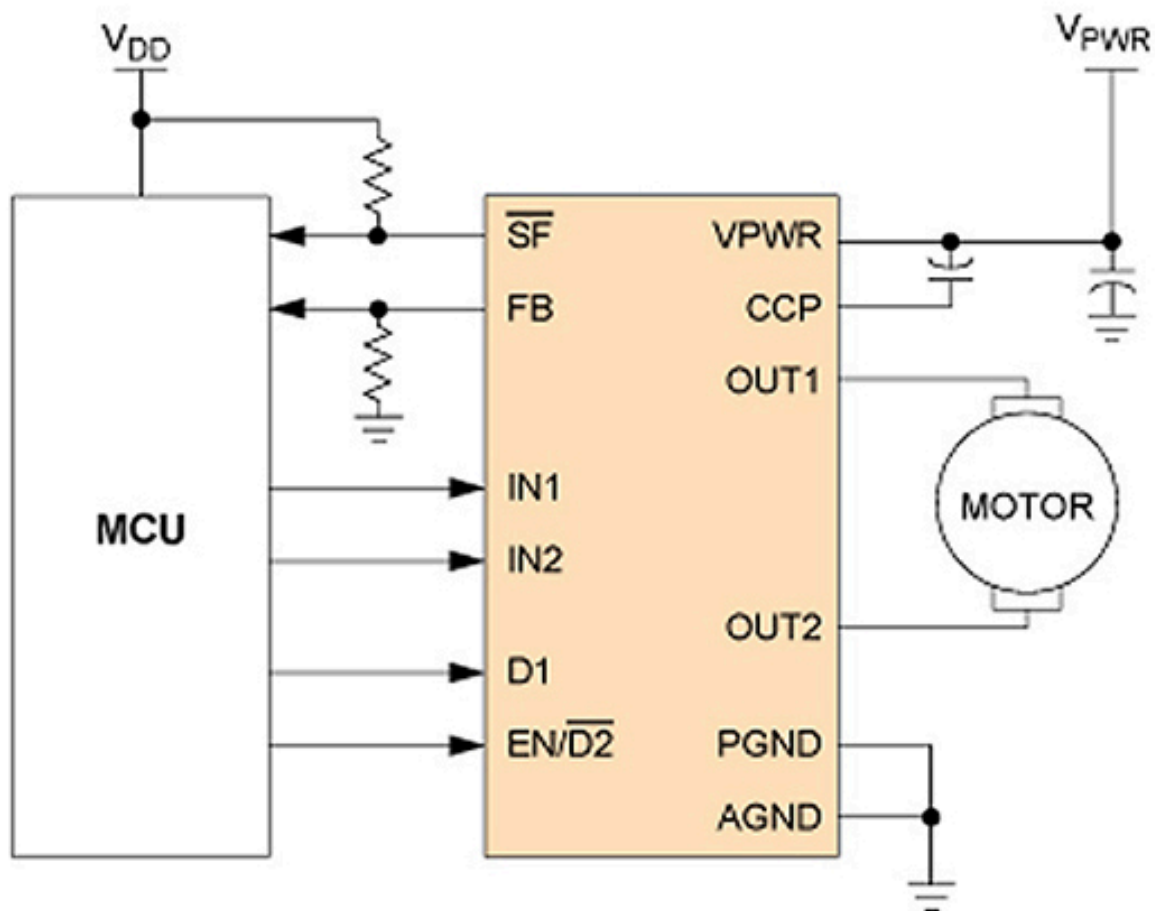
Last Updated: Dec 24, 2025

The NXP MC34931 is a monolithic, thermally efficient 36 V/ 5 A H-Bridge DC motor driver.

- Features real-time load current monitoring and automatic thermal back-off ensuring high availability operation in demanding high-current, high-temperature industrial applications
- Designed primarily for DC brushed and servo motor driver applications within the current and voltage limits stated in this specification
- Powered by SMARTMOS® technology
- [Processor Expert® component for medium voltage H-Bridge](#) products enables rapid embedded application development.

MC34931/S H-Bridge Block Diagram

Simplified Application Drawing



View additional information for [MC34931/S H-Bridge, Brushed DC Motor Driver, 5-36 V, 5 A, 11 kHz/20 kHz](#).

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. © 2026 NXP B.V.