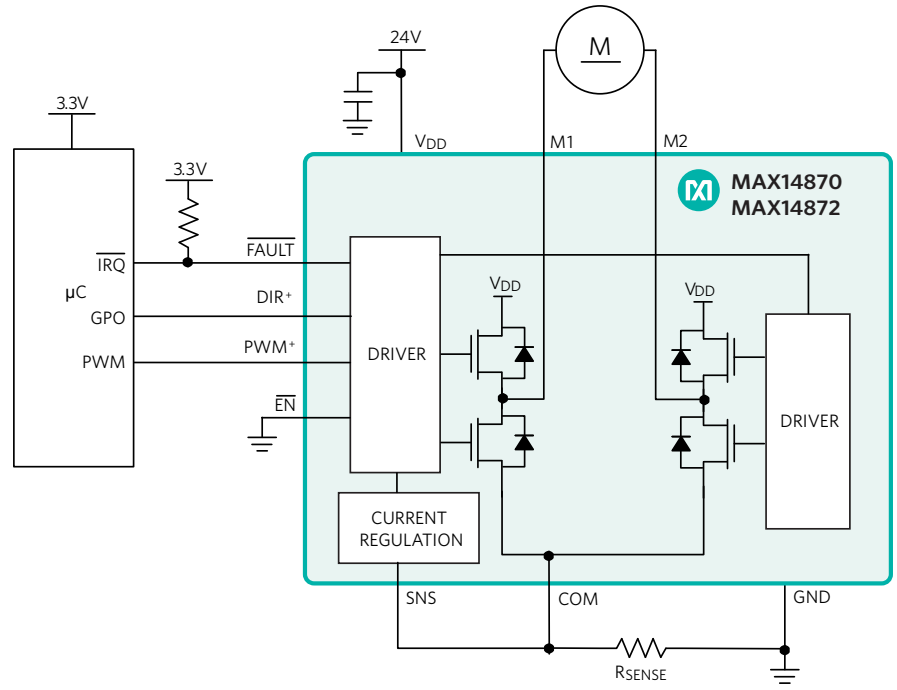
MOTOR DRIVER ICS

Simplify Design for Brushed DC Motors and Actuators

DESCRIPTION

Our DC motor drivers provide the simplest and most flexible IC solution for driving brushed DC motors or actuators/valves.

Integrated power MOSFETs and a charge pump-less power architecture simplify design with integrated current limiting and flexible current regulation modes. Monitoring and safety features such as overvoltage protection, short-circuit protection, overtemperature protection, and fault diagnostics ensure robust performance. Ultra-low R_{ON} and a flexible supply voltage enable cooler operation for longer run-time.



+ THESE PIN NAMES ARE FOR THE MAX14870. ON THE MAX14872, THESE ARE THE FWD AND REV INPUTS.

KEY BENEFITS

- Small Packages Handle High Power and Reduce Total Solution Size
- Low Power Consumption Enables Longer, Cooler Run-time
- Integrated Protection Provides Robust Operation
- Fast/Slow/25% Ripple Current Regulation Modes Simplify Design

Part Number	Voltage Range (V)	Peak Motor Current (A)	Configuration	Current Regulation	Smallest Package	EVKIT	Order
MAX14870	4.5 to 36	2.5	1 Brushed	Fast	3mm x 3mm TDFN	MAX14870EVKIT	
MAX14871	4.5 to 36	2.8	1 Brushed	Fast/Slow/ 25% Ripple	6.3mm x 5mm TSSOP	MAX14871EVKIT	
MAX14872	4.5 to 36	2.5	1 Brushed/ Dual Valve	Fast	3mm x 3mm TDFN	MAX14870EVKIT	
MAX14874	4.5 to 36	2.5	Dual Valve, Independent Driver Control	-	3mm x 3mm TDFN	MAX14874EVKIT	

RELATED RESOURCES

MAXREFDES150: Pocket IO PLC Development Platform

MAXREFDES89: Full-Bridge DC Motor Driver Mbed Shield

DC Motor Drivers

Video: Brushed DC Quad Motor Controlled Mbed Shield

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