

SI3000

40 V Output Hi-Current H-Bridge Motor Driver

Product Feature Sheet

Features

- Low input voltage range:
3 to 5 V
- Wide output voltage range:
5 to 40 V
- Bi-directional output drive current:
10 A maximum
- PWM output driven with 5 V input for
low EMI
- On-Chip recirculation diodes
- Forward or reverse select
- Operating temperature range:
-40 °C to +85 °C
- Compact QFN pb-free plastic package

Device Overview

The SI3000 is the first high-current, 5 to 40 V operation full H-bridge FET motor driver. Integrated low-voltage input pre-drivers allow for ease of use without needing level shifters and running high-voltage/high-current PCB traces traditionally needed to power the FETs. Coupled with Silicon360™'s SI2000, the SI3000 provides a complete high-torque capable motion control system.

The SI3000 has been optimized for high-density systems with minimum board area and external part count.

Packaging

68-lead QFN Pb-free plastic package
(8 x 8 x 0.75mm)

Typical Applications

Low cost, full animation
electromechanical systems

Simplified Schematic

