Features

- 8 or 12 high current outputs
- $R_{ON} = 1.5\Omega$ (typ.) $I_{MAX} = 350mA$
- Outputs combinable for higher loads
- Digital voltage range VDD 3.3V or 5.0V
- Low standby current < 1µA @50°C
- Low output leakage < 5µA @13V, RT
- SPI interface with diagnostics
- Open load detection
- Short circuit limitation, - detection
- Output clamping for inductive loads typ. >40V
- Thermal overload protection
- -40°C to +125°C operation temperature (QFN)

Applications

- Stepper Motor Driver with Stall Detection
- DC Motor Driver with PWM
- Relay Driver with VBAT- automatically PWM
- LED Driver with 3 logarithmic PWM sources
- Switch Monitoring with pulsed current check and control lamp
- Switch Monitoring with control lamp

Typical Applications Circuit

General Description

The IC drives 2 or 3 unipolar stepper motors and provides an optional stall detection for end position detection. For LED dimming a quasi logarithmic duty cycle is following the physiology of the human eye. With 3 PWM sources color LEDs can be driven in 3-color LED mode (245Hz PWM). The Relay PWM mode automatically adjusts the PWM to an effective supply voltage of typ. 11V. All outputs are short circuit and over-temperature protected with error read back capability. Switch monitoring with control lamp combination with only 1 wire and output is possible.

Ordering Information

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