

Features

- Floating channel designed for bootstrap operation
- Tolerant to negative transient voltage
- dV/dt immune
- Gate drive supply range from 10V to 20V
- Under voltage protect
- 3.3V, 5V and 15V logic compatible
- Cross-conduction prevention logic
- Matched propagation delay for both channels
- Internal set dead-time
- High-side output in phase with HIN pin
- Low-side output out of phase with $\overline{\text{LIN}}$ pin
- SOP-8 Package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Motor Driver
- Fluorescent Lamp Ballast
- E-bike

Typical Application

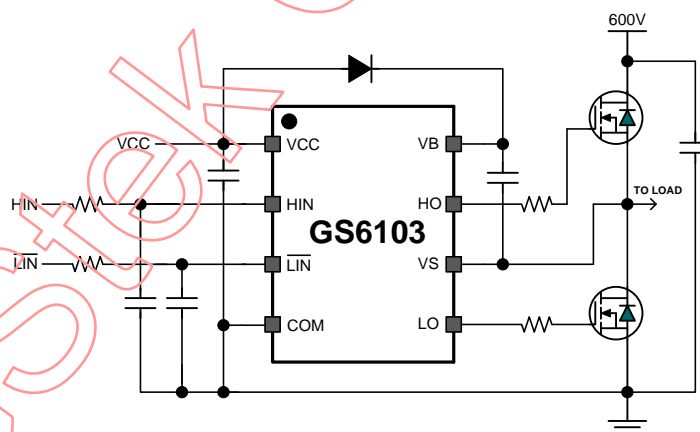


Figure 1 Typical application of GS6103

General Description

The GS6103 is a high voltage gate driver IC, It can drive N-channel MOSFETs and IGBTs in a half bridge configuration.

The GS6103's high-side can switch to 600V in a bootstrap operation. The GS6103 logic inputs are compatible with standard TTL and CMOS level (down to 3.3V) to interface easily with controlling device. GS6103 has a fixed internal dead-time of 520ns (typical).

The IC is offered in SOP-8 packages and operate over an extended -40°C to 125°C temperature range.