



High Speed Half Bridge Gate Driver (SCSHSHGD2508)



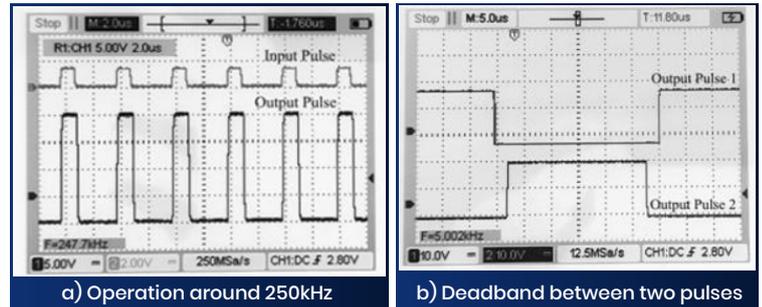
SCSHSHGD2508 is a compact yet powerful half bridge (two output channels) gate driver for all types of power semiconductor switches (IGBT, MOSFET, SiC MOSFET, GaN) and can work up to 250 kHz switching frequency, preferable for new generation SiC and GaN power switches for high speed operation.

It has several protection features with on board isolated supplies that ensure reliability and efficient switching performance.

Features:

- Up to 250 kHz switching frequency
- Standard +15/-5 volts drive (can be provided with other preferable options)
- Direct 3.3v and 5v pulse support, no need of additional interfacing circuit
- 8A peak current drive capability
- On board isolated supplies
- Half-bridge drive with inbuilt dead band option available
- Buffered inputs for low noise
- Under voltage lock out protection
- Short-circuit protection using VCESAT and Fault feedback
- Up to 1000 volts DC link support
- Power and fault indication LED
- Dimension: 65mm x 80mm

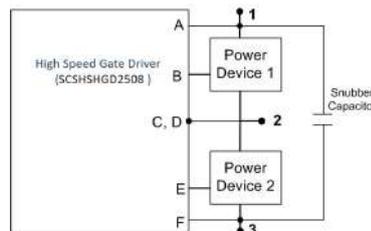
Typical Characteristics:



Compatible with our half bridge switch power modules

SCSPM1270 is easy to use half bridge switch power module (two switches) that integrates high speed gate driver with power devices. These modules are available for both Si, SiC and GaN based power devices. It is a complete power module consists of gate drivers, power devices, snubbers, and cooling arrangements.

With this any power converter configuration can be made by using single or multiple modules.



Equivalent power circuit diagram of SCSPM1270 with SCSHSHGD2508

Applications

This gate driver is suitable for any application for switching frequency up to 250kHz. Some of targeted applications are:

- Motor & traction drives
- DAB converters
- Industrial automation & testing
- PFC converters
- Multi-level converters

