

## Product Overview

### NCV5700: IGBT Gate Drivers, High-Current, Stand-Alone

For complete documentation, see the data sheet.

The NCV5700 is a high-current, high-performance stand-alone IGBT driver for high power applications that include solar inverters, motor control and uninterruptable power supplies. The device offers a cost-effective solution by eliminating many external components. Device protection features include Active Miller Clamp, accurate UVLO, EN input, DESAT protection and Active Low FAULT output. The driver also features an accurate 5.0 V output and separate high and low (VOH and VOL) driver outputs for system design convenience. The driver is designed to accommodate a wide voltage range of bias supplies including unipolar and bipolar voltages. It is available in a 16-pin SOIC package. It is AEC-Q100 qualified.

#### Features

- High Current Output (+4.0/-6.0 A) at IGBT Miller Plateau voltages
- Low VOH and VOL
- Active Miller Clamp
- DESAT Protection with Programmable Delay

#### Applications

- DC-AC Inverter
- Battery Charger
- PFC
- Motor Driver
- Automotive PTC Heater

#### Benefits

- Reduced switching losses and short switching times
- Full enhancement of IGBT
- Prevents Spurious Gate Turn-on
- Enhanced programmable protection

#### End Products

- Motor Control
- Electric Vehicles

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Power Switch	Number of Outputs	Topology	Isolation Type	V <sub>in</sub> Max (V)	V <sub>CC</sub> Max (V)	Drive Source / Sink Typ (mA)	Rise Time (ns)	Fall Time (ns)	t <sub>o</sub> Max (ns)	Package Type
NCV5700DR2G		AEC Qualified PPAP Capable Pb-free Halide free	Active		1			5.5	35	4000 / 6100	9.2	7.9	75	SOIC-16

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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