

SAMPLEKITVNH7

VNH MO-7 Sample Kit box

The SAMPLEKITVNH7 provides you a selection

representative of the entire family useful for evaluating and promoting the product family.

of ST VIPower M0-7 HBridge drivers

Data brief



Features

- Immediate evaluation of M0-7 HBridge drivers with demonstration examples
- The Kit includes:
 - 8 samples
 - Printed card providing overview of product portfolio, key features, main applications, package description.

Table 1. Device summary

Description

| · · · · · · · · · · · · · · · · · · · | | | |
|---------------------------------------|------------------------------------|---------------------------|--|
| Part number | RON (High- and low-side) (mOhm) | Package | |
| VNH7100BAS | 60-40 | SO-16N | |
| VNH7070BAS | 42-30 | SO-16N | |
| VNH7070AY | 42-30 | PowerSSO-36 Triple Pad | |
| VNH7040AY | 27-14 | PowerSSO-36 Triple Pad | |
| VNHD7012AY | 12 | PowerSSO-36 | |
| VNHD7008AY | 8 | PowerSSO-36 | |

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For further information contact your local STMicroelectronics sales office.

1 Overview

The ST VIPower M0-7 HBridge is a family of bridge motor drivers intended for a wide range of automotive applications. The family is designed using STMicroelectronics' well known and proven proprietary VIPower[®] technology that allows to efficiently integrate on the same die the true PowerMOSFET with an intelligent signal/ protection circuitry. The devices are housed in tiny packages SO-16N, PowerSSO-36 single and Triple Pad packages able to optimize the dissipation performances. The input signals INA and INB can directly interface the microcontroller to select the motor direction and the brake conditions. Two selection pins (SEL0 and SEL1) are available to address to the microcontroller the information available on the MultiSense. The MultiSense pin allows to monitor the motor current, provides a voltage proportional to the battery value and the information on the temperature of the chip. The integrated protections are: load current limitation, overload active power limitation (with latch-off), overtemperature shutdown (with latch-off) and cross current protection. The PWM, up to 20 KHz, allows to control the speed of the motor in all possible conditions.



2 Ordering information

| Order code | Reference |
|---------------|-------------------------------------|
| SAMPLEKITVNH7 | M0-7 HBridge drivers Sample kit box |



3 Revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 05-Mar-2019 | 1 | Initial release. |
| 15-Mar-2019 | 2 | Typo error. |



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