


H-Bridge Motor Driver Automotive 16-Pin SO N T/R

Manufacturer:	STMicroelectronics, Inc
Package/Case:	SOP16
Product Type:	Driver ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The device is a full bridge motor driver intended for a wide range of automotive applications. The device incorporates a dual monolithic high-side driver and two low-side switches.

Both switches are designed using STMicroelectronics' well known and proven proprietary VIPower®M0 technology that allows to efficiently integrate on the same die a true Power MOSFET with an intelligent signal/protection circuitry. The three dies are assembled in SO-16N package on electrically isolated leadframes.

Moreover, its fully symmetrical mechanical design allows superior manufacturability at board level. The input signals IN_A and IN_B can directly interface the microcontroller to select the motor direction and the brake condition. A $SEL0$ pin is available to address the information available on the MultiSense to the microcontroller. The MultiSense pin allows to monitor the motor current by delivering a current proportional to the motor current value.

The PWM, up to 20 kHz, allows to control the speed of the motor in all possible conditions. In all cases, a low level state on the PWM pin turns off both the LS_A and LS_B switches.

Key Features

AEC-Q100 qualified

Output current: 15 A

3 V CMOS-compatible inputs

Undervoltage shutdown

Overvoltage clamp

Thermal shutdown

Cross-conduction protection

Current and power limitation

Recommended For You

VNS050JTR-E

STMicroelectronics, Inc
HSSOP12

VNLD5160TR-E

STMicroelectronics, Inc
SOP8

VND5T050AKTR-E

STMicroelectronics, Inc
SSOP24

VNS3NV04PTR-E

STMicroelectronics, Inc
SOP8

VN7003ALHIR

STMicroelectronics, Inc
Octapak-7

VND7140AJ12TR

STMicroelectronics, Inc
HSSOP12

VN330SP-E

STMicroelectronics, Inc
HSOP10

VNL5050N3TR-E

STMicroelectronics, Inc
SOT-223

VNB35NV04TR-E

STMicroelectronics, Inc
TO-263

VN7007AHIR

STMicroelectronics, Inc
TO252-7

VNV35N07

STMicroelectronics, Inc
HSOP10

VND5050AJTR-E

STMicroelectronics, Inc
HSSOP12

VND5E160AJTR-E

STMicroelectronics, Inc
HSSOP12

VNN7NV04PIR-E

STMicroelectronics, Inc
SOT223

VN7004CLHIR

STMicroelectronics, Inc
TO-252