


**Driver 2.5A 4-OUT High and Low Side Full Brdg/Half Brdg/H Brdg
Non-Inv Automotive 16-Pin SOIC N Tube**

Manufacturer:	Renesas Technology Corp
Package/Case:	SOP16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

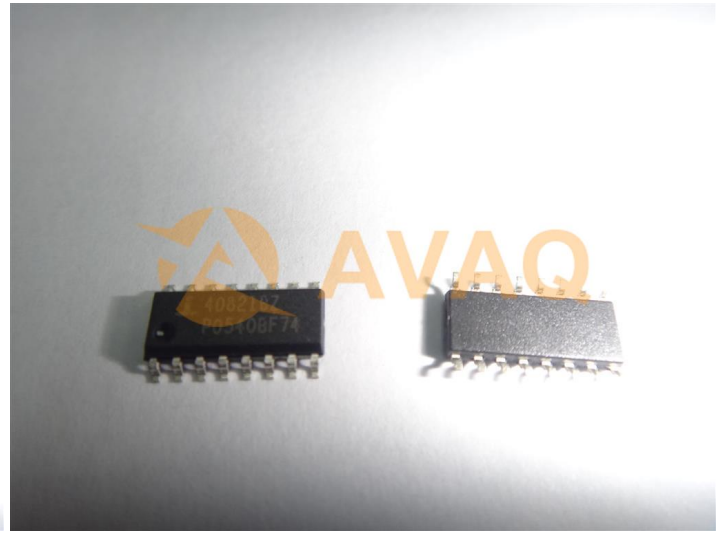
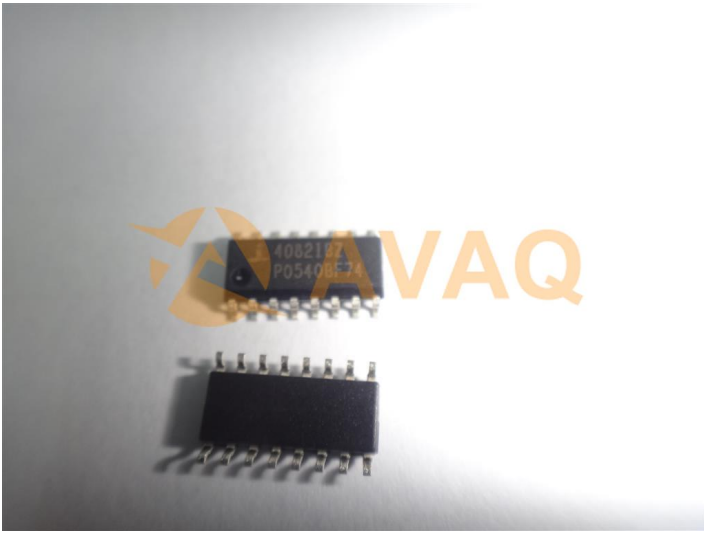
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General Description

The HIP4082 is a medium frequency, medium voltage H-Bridge N-Channel MOSFET driver IC, available in 16 lead plastic SOIC (N) and DIP packages. Specifically targeted for PWM motor control and UPS applications, bridge based designs are made simple and flexible with the HIP4082 H-bridge driver. With operation up to 80V, the device is best suited to applications of moderate power levels. Similar to the HIP4081, it has a flexible input protocol for driving every possible switch combination except those which would cause a shoot-through condition. The HIP4082's reduced drive current allows smaller packaging and it has a much wider range of programmable dead times (0.1 to 4.5 μ s) making it ideal for switching frequencies up to 200kHz. The HIP4082 does not contain an internal charge pump, but does incorporate non-latching level-shift translation control of the upper drive circuits. This set of features and specifications is optimized for applications where size and cost are important. For applications needing higher drive capability the HIP4080A and HIP4081A are recommended.

Key Features

- Independently Drives 4 N-Channel FET in Half Bridge or Full Bridge Configurations
- Bootstrap Supply Max Voltage to 95VDC
- Drives 1000pF Load in Free Air at 50°C with Rise and Fall Times of Typically 15ns
- User-Programmable Dead Time (0.1 to 4.5 μ s)
- DIS (Disable) Overrides Input Control and Refreshes Bootstrap Capacitor when Pulled Low
- Input Logic Thresholds Compatible with 5V to 15V Logic Levels
- Shoot-Through Protection
- Undervoltage Protection
- Pb-free Available



Recommended For You

HIP4080AIBZ

Renesas Technology Corp
SOP20

HIP4082IPZ

Renesas Technology Corp
DIP16

HIP6020ACB

Renesas Technology Corp
SOP28

HIP6008CB

Renesas Technology Corp
SOP16

HIP4080AIPZ

Renesas Technology Corp
DIP20

HIP1015CB

Renesas Technology Corp
SOP8

HIP6020ACB-T

Renesas Technology Corp
SOP-8

HIP6021ACB

Renesas Technology Corp
SOP28

HIP1011BCB

Renesas Technology Corp
SOP

HIP6500BCB-T

Renesas Technology Corp
SOP20

HIP1011ACB

Renesas Technology Corp
SOP16

HIP6201CB

Renesas Technology Corp
SOP8

HIP1011CB

Renesas Technology Corp
SOP

HIP6503CB

Renesas Technology Corp
SOP20

HIP6500BCB

Renesas Technology Corp
SOP20