


**Driver 5.1V 3.8A 4-OUT High and Low Side Full Brdg Inv/Non-Inv
Automotive 20-Pin SOIC W Tube**

Manufacturer:	Renesas Technology Corp
Package/Case:	SOP20
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

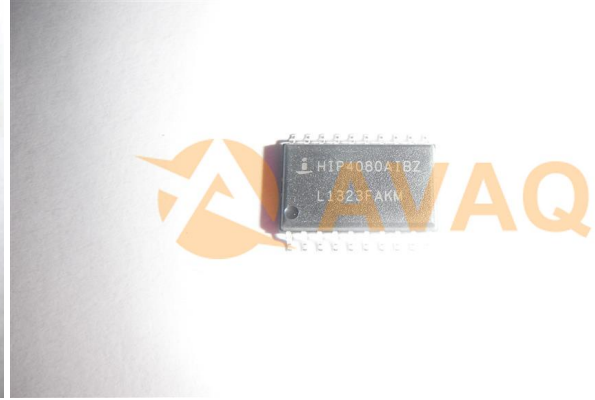
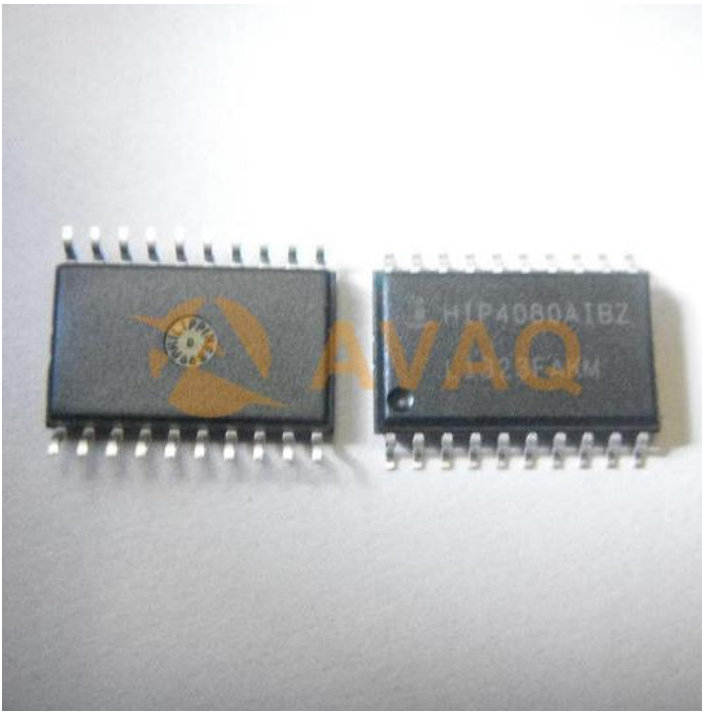
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General Description

The HIP4080A is a high frequency, medium voltage Full Bridge N-Channel FET driver IC, available in 20 lead plastic SOIC and DIP packages. The HIP4080A includes an input comparator, used to facilitate the "hysteresis" and PWM modes of operation. Its HEN (high enable) lead can force current to freewheel in the bottom two external power MOSFETs, maintaining the upper power MOSFETs off. Since it can switch at frequencies up to 1MHz, the HIP4080A is well suited for driving Voice Coil Motors, switching power amplifiers and power supplies. HIP4080A can also drive medium voltage brush motors, and two HIP4080As can be used to drive high performance stepper motors, since the short minimum "on-time" can provide fine micro-stepping capability. Short propagation delays of approximately 55ns maximize control loop crossover frequencies and dead-times which can be adjusted to near zero to minimize distortion, resulting in precise control of the driven load. The similar HIP4081A IC allows independent control of all 4 FETs in a Full Bridge configuration.

Key Features

- Drives N-Channel FET Full Bridge Including High Side Chop Capability
- Bootstrap Supply Max Voltage to 95VDC
- Drives 1000pF Load at 1MHz in Free Air at +50°C with Rise and Fall Times of Typically 10ns
- User-Programmable Dead Time
- Charge-Pump and Bootstrap Maintain Upper Bias Supplies
- DIS (Disable) Pin Pulls Gates Low
- Input Logic Thresholds Compatible with 5V to 15V Logic Levels
- Very Low Power Consumption
- Undervoltage Protection
- Pb-Free Available as an Option



Recommended For You

HIP4082IPZ

Renesas Technology Corp

DIP16

HIP4082IBZ

Renesas Technology Corp

SOP16

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

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SOP20