

HIP4086, HIP4086A

80V, 500mA, 3-Phase MOSFET Driver

FN4220
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The **HIP4086** and **HIP4086A** (referred to as the HIP4086/A) are 3-phase N-channel MOSFET drivers. Both parts are specifically targeted for PWM motor control. These drivers have flexible input protocol for driving every possible switch combination. The user can even override the shoot-through protection for switched reluctance applications.

The HIP4086/A have a wide range of programmable dead times (0.5µs to 4.5µs) which makes them very suitable for the low frequencies (up to 100kHz) typically used for motor drives.

The only difference between the HIP4086 and the HIP4086A is that the HIP4086A has the built-in charge pumps disabled. This is useful in applications that require very quiet EMI performance (the charge pumps operate at 10MHz). The advantage of the HIP4086 is that the built-in charge pumps allow indefinitely long on times for the high-side drivers.

To insure that the high-side driver boot capacitors are fully charged prior to turning on, a programmable bootstrap refresh pulse is activated when VDD is first applied. When active, the refresh pulse turns on all three of the low-side bridge FETs while holding off the three high-side bridge FETs to charge the high-side boot capacitors. After the refresh pulse clears, normal operation begins.

Another useful feature of the HIP4086/A is the programmable undervoltage set point. The set point range varies from 6.6V to 8.5V.

TABLE 1. KEY DIFFERENCES BETWEEN FAMILY OF PARTS

PART NUMBER	CHARGE PUMP
HIP4086	Yes
HIP4086A	No

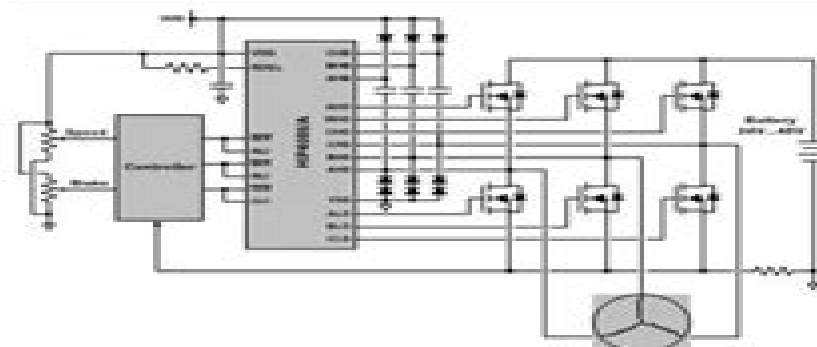


FIGURE 1. TYPICAL APPLICATION

Features

- Independently drives 6 N-channel MOSFETs in 3-phase bridge configuration
- Bootstrap supply maximum voltage up to 95VDC with bias supply from 7V to 1.5V
- 1.25A peak turn-off current
- User programmable dead time (0.5µs to 4.5µs)
- Bootstrap and optional charge pump maintain the high-side driver bias voltage.
- Programmable bootstrap refresh time
- Drives 1000pF load with typical rise time of 20ns and fall time of 10ns
- Programmable undervoltage set point

Applications

- Brushless Motors (BLDC)
- 3-phase AC motors
- Switched reluctance motor drives
- Battery powered vehicles
- Battery powered tools

Related Literature

- [AN9642](#), "HIP4086 3-Phase Bridge Driver Configurations and Applications"
- [AN1829](#), "HIP4086 3-Phase BLDC Motor Drive Demonstration Board, User Guide"

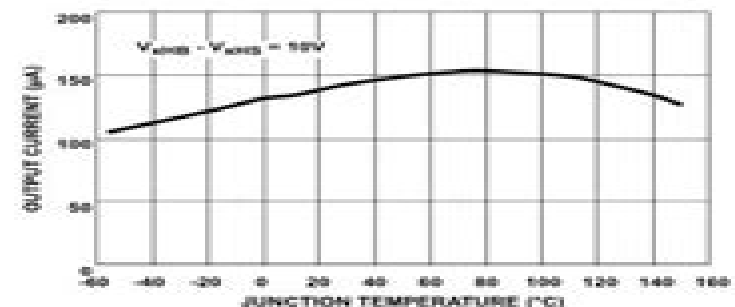


FIGURE 2. CHARGE PUMP OUTPUT CURRENT

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