Quality Assurance & Reliability Commitment

The MPS Quality Assurance organization develops, coordinates, and champions strategic quality initiatives throughout MPS Inc., its foundries, and sub-contractors. Its mission is to enable MPS to design, develop, manufacture, and deliver products to our customers with world-class quality and reliability that meet and exceed our customers’ expectations.

MPS and Its Supplier Quality Systems and Certificates:

- ISO9001:2008 (MPS)
- EU RoHS/HF/REACH Compliant (MPS)
- Sony Green Partner (MPS & Suppliers)
- TS16949 (Suppliers)
- ISO14001 (Suppliers)

Product Quality:

- Automotive Products Qualified per AEC-Q100 Standard
- Standard Products Qualified per JEDEC and Military Standard
- Reliability Failure Rate <10FIT
- Product Quality Level <1.0ppm

Quality Control and Monitor:

- On-Site Foundry and Assembly Teams for Real-Time Actions
- Quarterly Supplier Quality Review and Annual Supplier Audit
- Short-Term Reliability Monitor Test – Daily
- Long-Term Reliability Monitor Test – Monthly
- Real-Time Engineering Actions on Monitor Failure
- Quarterly Reliability Monitor Reports
Driving the Market in Reliability & Efficiency

MPS motor driver solutions offer a wide range of high-performance, cost-effective, and reliable solutions for stepper motors, brushless DC motors, brushed DC motors, and solenoids. Using industry-leading semiconductor processes and advanced packaging technologies, MPS motor drivers achieve the highest efficiency, best thermal performance, and smallest solution size.
Superior Motor Driver Solutions

**Thermal Performance**
Proprietary DMOS technology

**Integrated Designs**
Proprietary packaging technology

**High-Precision Control**
Revolutionary speed & position sensing

MPS’ proprietary Fourth Generation BCD™ process technology is the key to its competitive advantage. Many conventional analog technologies are handicapped by an inability to support the integration of power devices at high power levels. This results in unacceptably large semiconductors and/or significant levels of power loss.

High power loss results in significant heat dissipation. This must be managed to avoid damaging or reducing the overall performance and efficiency of the system. Thus, MPS has created superior motor driver solutions for multiple applications.
Typical Applications

AUTOMOTIVE

MPS offers motor drivers specifically tailored to automotive applications. From tiny DC brush motors that direct airflow inside a climate control unit, to body control like power liftgates and latches, to high-power brushless motors like those in an e-turbo, MPS has a driver solution.

ROBOTICS

MPS offers the smallest, most highly integrated drivers for brushless and stepper motors used in robotics. Our three-phase power stages can deliver up to 10 amps of current and pack an entire drive stage into a tiny, single-chip solution, enabling electronics to be integrated right at the motor. Our stepper motor drivers offer better current control and require less PCB area than other drivers on the market.
PRINTERS

From tiny, low-power point-of-sale (POS) printers all the way up to large office printers and copiers, MPS has motor drivers for all types of printers. The portfolio includes small DC brush motor drivers, stepper motor drivers for small and large motors alike, and pre-drivers for large brushless motors, such as those used in copiers.

POWER TOOLS

All kinds of power tools are moving away from gasoline engines to rechargeable electric power. From small power screwdrivers to electric lawn mowers, MPS brushless motor drivers and pre-drivers power all kinds of tools. The MPS portfolio showcases a wide range of drivers up to 100 volts.
Stepper Motor Drivers

A stepper motor allows for precise position control without the need for a feedback system. It is widely used in open-loop position control systems. MPS stepper motor drivers are optimized to drive bipolar stepper motors used in printers, document scanners, office/factory automation, security system, scientific, and medical equipment.

**Features**
- Two Internal Full-Bridge Drivers
- Stepper Indexer or Parallel Control
- Low On Resistance
- No Control Supply Required
- Sink and Source Over-Current Protection
- Thermal Shutdown and UVLO Protection
- Thermally Enhanced Packages
- High Breakdown Voltage

**MPS Advantages**
- Low On Resistance Significantly Improves Thermal Performance
- Smooth Torque and Accurate Stepping Control
- Extensive Protection Functions Increase System Reliability

---

**Part Number** | **Min Input (V)** | **Max Input (V)** | **Max Current (A)** | **Step Mode** | **Control Interface** | **Description** | **Status**
--- | --- | --- | --- | --- | --- | --- | ---
MP6506 | 2.7 | 15 | 0.5 | Full, Half | Parallel | 15V, 0.5A Bipolar Stepper Motor Driver | Released
MP6507 | 2.7 | 15 | 0.7 | Full, Half | Parallel | 15V, 0.7A Bipolar Stepper Motor Driver | Released
MP6508 | 2.7 | 18 | 1.2 | Full, Half | Parallel | 18V, 1.2A Bipolar Stepper Motor Driver | Released
MP6509 | 2.7 | 18 | 1.2 | Full, Half | Parallel | 18V, 1.2A Bipolar Stepper Motor Driver with Current Attenuation | Released
MP6520 | 8.5 | 35 | 1.2 | Full, Half, Quarter, Eighth | Indexer | 35V, 1.3A Bipolar Stepper Motor Driver with Micro-Stepping | Released
MP6518 | 8.5 | 35 | 1.5 | Full, Half, Quarter, Eighth | Indexer | 35V, 1.5A Bipolar Stepper Motor Driver with Micro-Stepping | Released
MP6600 | 4.5 | 35 | 1.5 | Full, Half, Quarter, Eighth | Indexer | 35V, 1.5A Bipolar Stepper Motor Driver with Micro-Stepping | Released
MP6501A | 8.5 | 35 | 2.5 | Full, Half, Quarter, Eighth | Indexer | 35V, 2.5A Bipolar Stepper Motor Driver with Micro-Stepping | Released
MP6500 | 8.5 | 35 | 2.8 | Full, Half, Quarter, Eighth | Indexer | 35V, 2.8A Bipolar Stepper Motor Driver with Micro-Stepping and Internal Current Sense | Released
**MP6500**  
NEW  
2.5A Bipolar Stepper Motor Driver with Internal Current Sense

**Features**
- Wide 4.5V to 35V Input Voltage Range
- Two Internal Full-Bridge Drivers
- Low On Resistance (HS: 170mΩ; LS: 150mΩ)
- No Control Power Supply Required
- Simple Logic Interface
- 3.3V and 5V Compatible Logic Supply
- Step Modes from Full-Step to ⅛-Step
- Automatic Current Decay
- Over-Current Protection (OCP)
- Input Over-Voltage Protection (OVP) Function
- Thermal Shutdown and Under-Voltage Lockout (UVLO) Protection
- Fault Indication Output
- Space-Saving QFN-24 (5mmx5mm) and Thermally Enhanced 24-Pin TSSOP Packages

**Small Solution Size with Integrated Current Sensing**

MP6500: 165mm²  
Competitor: 864mm²

**Better Current Control for Improved Motion Quality**

![Current Control Graphs]
# Brushed DC / Solenoid Drivers

A brushed DC motor is a mechanically commutated motor running from a DC power source. It is widely used in many consumer and industrial applications due to its simplicity and cost-effectiveness. MPS H-bridge drivers are designed to drive brushed DC motors and solenoids in consumer appliances, toys, automotive, and industrial applications.

## Features
- Integrated Half-/Full-Bridge Drivers
- Low On Resistance
- Internal Charge Pump
- Low Quiescent/Sleep Current
- Over-Current and Over-Temperature Protections
- Thermally Enhanced Packages

## MPS Advantages
- Low On Resistance Significantly Improves Thermal Performance
- Extensive Protection Functions Increase System Reliability

## Wide Input Range to Support Different Applications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min Input (V)</th>
<th>Max Input (V)</th>
<th>Number of Half-Bridges</th>
<th>Output Current (A)</th>
<th>Control Interface</th>
<th>Description</th>
<th>Status</th>
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<tbody>
<tr>
<td>MP6506</td>
<td>2.7</td>
<td>15</td>
<td>4</td>
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<td>PWM</td>
<td>15V, 0.5A Dual Full-Bridge Driver</td>
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<td>MP6507</td>
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<td>15V, 0.7A Dual Full-Bridge Driver</td>
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<td>MP6513</td>
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<td>21</td>
<td>2</td>
<td>0.8</td>
<td>PWM</td>
<td>21V, 0.8A Full-Bridge Driver</td>
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<tr>
<td>MP6514</td>
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<td>21</td>
<td>2</td>
<td>0.8</td>
<td>Hi/Lo</td>
<td>21, 0.8A Full-Bridge Driver</td>
<td>Released</td>
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<td>MPQ6523</td>
<td>7</td>
<td>40</td>
<td>3</td>
<td>0.9</td>
<td>SPI</td>
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<td>MPQ6526</td>
<td>7</td>
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<td>6</td>
<td>0.9</td>
<td>SPI</td>
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<tr>
<td>MP6509</td>
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<td>18</td>
<td>4</td>
<td>1.2</td>
<td>PWM</td>
<td>18V, 1.2A Dual Full-Bridge Driver with Current Attenuation</td>
<td>Released</td>
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<td>MP6515</td>
<td>8</td>
<td>35</td>
<td>2</td>
<td>2.8</td>
<td>PWM</td>
<td>35V, 2.8A Full-Bridge Driver with Internal Current Sense</td>
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<td>2</td>
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<td>Hi/Lo</td>
<td>35V, 2.8A Full-Bridge Driver with Internal Current Sense</td>
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<td>MPQ6610</td>
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<td>60</td>
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<td>3</td>
<td>Hi/Lo</td>
<td>60V, 3A Half-Bridge Driver</td>
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<tr>
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<td>28</td>
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<td>PWM</td>
<td>28V, 5A Full-Bridge Driver with Internal Current Sense</td>
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<tr>
<td>MP8049S</td>
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<td>26</td>
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<td>PWM</td>
<td>26V, 5.5A Dual Full-Bridge Driver</td>
<td>Released</td>
</tr>
</tbody>
</table>
MPQ6610 NEW

60V, Versatile 3A Driver – High-Side, Low-Side, or Half-Bridge, with Current Measurement and Full Protection Features

**Features**

- Wide 5V to 60V Input Voltage Range
- 3A Maximum Output Current
- Internal Half-Bridge Driver
- Cycle-by-Cycle Current Regulation / Limit
- Low On Resistance (HS: 100 mΩ; LS: 100 mΩ)
- No Control Power Supply Required
- Simple, Versatile Logic Interfaces
- Inputs Compatible With 2.5V, 3.3V, and 5V logic
- Over-Current Protection (OCP)
- Open Load Detection
- Thermal Shutdown
- Under-Voltage Lockout (UVLO)
- Fault Indication Output
- Thermally Enhanced Package

**Low RDS(ON) Enables Smallest Footprint**

<table>
<thead>
<tr>
<th>MPQ6610</th>
<th>Competition</th>
</tr>
</thead>
<tbody>
<tr>
<td>9mm² (TSOT23)</td>
<td>150mm²</td>
</tr>
</tbody>
</table>

NEW

Simple, Easy Solutions™
MonolithicPower.com
Brushless DC Pre-D Drivers

A brushless DC motor is an electronically commutated motor running from a DC source. Due to its high reliability and ruggedness, it has been used in many speed control systems. MPS brushless DC motor pre-drivers are designed to drive high-power brushless DC motors used in various industrial, automotive, and consumer applications, such as power tools, fans, pumps, E-bikes, etc.

**Features**

- Single or Triple H-Bridge MOSFET Pre-Drivers
- Wide Input Voltage Range
- Internal Charge Pumps
- Over-Current Protection (OCP)
- Adjustable Dead Time to Prevent Shoot-Through
- Thermal Shutdown and UVLO Protection

**MPS Advantages**

- Low On Resistance Significantly Improves Thermal Performance
- Wide Input Range to Support Different Applications
- Extensive Protection Functions Increase System Reliability

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min Supply (V)</th>
<th>Max Supply (V)</th>
<th>Max SW Voltage (V)</th>
<th>Number of Half-Bridges</th>
<th>Sink/Source Current (A)</th>
<th>Hall Input</th>
<th>Description</th>
<th>Status</th>
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<tbody>
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<td>MP6531A</td>
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<td>1</td>
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<td>60V 3-Phase BLDC Motor Pre-Driver</td>
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<td>MP1921A</td>
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<td>18</td>
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<td>1</td>
<td>2.5/1.5</td>
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<td>100V 2.5A Half-Bridge Gate Driver</td>
<td>Released</td>
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<td>MP6534</td>
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<td>60</td>
<td>60</td>
<td>3</td>
<td>1/0.8</td>
<td>No</td>
<td>60V 3-Phase BLDC Motor Pre-Driver with 500mA Buck Regulator</td>
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<tr>
<td>MP6535</td>
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<td>Yes</td>
<td>60V 3-Phase BLDC Motor Pre-Driver with Hall Input and 500mA Buck Regulator</td>
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<tr>
<td>MP6530</td>
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<td>60</td>
<td>60</td>
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<td>1/0.8</td>
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<td>60V 3-Phase BLDC Motor Pre-Driver</td>
<td>Released</td>
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<tr>
<td>MP6539</td>
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<td>100</td>
<td>3</td>
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<td>MP6537</td>
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<td>100</td>
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<td>MP6538</td>
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<td>100</td>
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<td>100V 3-Phase BLDC Motor Pre-Driver with Hall Input</td>
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<tr>
<td>MP6532</td>
<td>5</td>
<td>60</td>
<td>60</td>
<td>3</td>
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<td>Yes</td>
<td>60V 3-Phase BLDC Motor Pre-Driver with Hall Input</td>
<td>Released</td>
</tr>
</tbody>
</table>
MP6539  **NEW**

100V, Three-Phase, BLDC Motor Pre-Driver with HS & LS Inputs

**Features**
- Supports 100V Operation
- 120V VBST Maximum Voltage
- Internal LDO Supports External NPN for High-Current Drive Requirements
- Integrated Current-Sense Amplifier
- Low-Power Sleep Mode for Battery-Powered Applications
- Programmable Over-Current Protection (OCP) for External MOSFETs
- Adjustable Dead-Time Control to Prevent Shoot-Through
- Thermal Shutdown and Under-Voltage Lockout (UVLO) Protection
- Fault Indication Output
- Available in Thermally Enhanced Surface-Mounted TSSOP and QFN Packages

**Has Current Measurement and Built-In Protection Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>Up to 100V</td>
</tr>
<tr>
<td>Three interface options</td>
<td>PWM/EN, HS/LS, or Hall commutation</td>
</tr>
<tr>
<td>Adjustable current limit</td>
<td></td>
</tr>
<tr>
<td>Adjustable dead time</td>
<td></td>
</tr>
<tr>
<td>Motor current measurement</td>
<td></td>
</tr>
<tr>
<td>Fault reporting</td>
<td></td>
</tr>
<tr>
<td>Adjustable over-current</td>
<td></td>
</tr>
<tr>
<td>Current limit</td>
<td></td>
</tr>
<tr>
<td>Motor current measurement</td>
<td></td>
</tr>
<tr>
<td>Control and commutation</td>
<td></td>
</tr>
<tr>
<td>Timing and control logic</td>
<td></td>
</tr>
<tr>
<td>Adjustable dead time</td>
<td></td>
</tr>
<tr>
<td>Fault reporting</td>
<td></td>
</tr>
<tr>
<td>Adjustable over-current</td>
<td></td>
</tr>
<tr>
<td>Current limit</td>
<td></td>
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<tr>
<td>Control and commutation</td>
<td></td>
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<td>Timing and control logic</td>
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<tr>
<td>Adjustable dead time</td>
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<td>Fault reporting</td>
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<tr>
<td>Adjustable over-current</td>
<td></td>
</tr>
<tr>
<td>Current limit</td>
<td></td>
</tr>
</tbody>
</table>

**Diagram**

- **Thermal Protection**
- **Internal Charge Pump**
- **5V-60V Wide Input Range**
- **Phase A, Repeat for B & C**
Integrated BLDC Motor Drivers

The unique requirements for brushless fans require dedicated driver designs. MPS has solutions for single-phase and three-phase brushless fans used for cooling servers, laptops, and other electronic equipment. Integrated Hall sensors simplify the design and minimize the component count for small, low cost fans.

MPS Advantages

- Low On Resistance Significantly Improves Thermal Performance
- Wide Input Range to Support Different Applications
- Extensive Protection Functions Increase System Reliability
- No Need for External Clamping Devices
- Integrated Hall Sensor

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min Input (V)</th>
<th>Max Input (V)</th>
<th>Number of Half-Bridges</th>
<th>Output Current (A)</th>
<th>Hall Input</th>
<th>Description</th>
<th>Status</th>
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<td>16V, 0.4A Single-Phase BLDC Motor Driver, Speed Indicator, Locked Rotor Protection</td>
<td>Released</td>
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<tr>
<td>MP6510</td>
<td>4.5</td>
<td>16</td>
<td>2</td>
<td>0.6</td>
<td>Yes</td>
<td>16V, 0.6A Single-Phase BLDC Motor Driver, Speed Indicator, Locked Rotor Protection</td>
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<tr>
<td>MP6517A/B</td>
<td>3</td>
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<td>2</td>
<td>0.6</td>
<td>No</td>
<td>18V, 0.6A Single-Phase BLDC Motor Driver, Hall Sensor, Programmable Speed Curve, Locked Rotor Protection, Speed Indicator</td>
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<tr>
<td>MP9518</td>
<td>3</td>
<td>18</td>
<td>2</td>
<td>0.6</td>
<td>No</td>
<td>18V, 0.6A Single-Phase BLDC Motor Driver with Hall Sensor, Speed Indicator, Locked Rotor Protection</td>
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<tr>
<td>MP6536</td>
<td>5</td>
<td>26</td>
<td>3</td>
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<td>No</td>
<td>26V, 5A 3-Phase Power Stage</td>
<td>Released</td>
</tr>
</tbody>
</table>
MP6517A/B

Single-Phase, BLDC, Motor Driver with Integrated Hall Sensor in a TSOT23-6 Package

**Features**
- Embedded Hall Sensor with High Sensitivity
- Wide 3.3V to 16V Operating Input Range
- Up to 2A Programmable Current Limit
- Integrated Power MOSFETs: Total 850mΩ (HS + LS)
- Programmable Speed Curve
- Built-In Adjustable Speed Curve Corner Setting
- Automatic Phase Lock Detection of Winding BEMF and Current Zero-Crossing
- Soft On/Off Phase Transition
- Rotational Speed Indicator (FG) Signal
- 12kHz to 48kHz PWM Input Frequency Range
- Fixed 26kHz Output Switching Frequency
- Input Line Reverse-Voltage Protection (RVP)
- Rotor Deadlock (RD) Protection and Automatic Recovery
- Thermal Protection and Automatic Recovery
- Built-In Input OVP, UVLO, and Automatic Recovery
- MP6517A Supports Standby Mode
- Available in TSOT23-6-L, TSOT23-6-R, TSOT23-6-SL, and TSOT23-6-RSL Packages

Industry’s First BLDC Fan Driver with Integrated Hall Sensor in a Tiny TSOT23 Package

Simple PCB Design with Only 2 Components Needed

Compared to 7 or 8
**Complete EV Motor Driver Solutions**

**Stepper Motor**

**MP6500 Solution Kit (EVKT6500) $99**
- Simple solution kit for the MP6500 stepper motor driver with internal current sense
- Connect to power, a bipolar stepper motor, and a pulse generator
- Small size: 30x35mm

**MP6501A Solution Kit (EVKT6501A) $119**
- Solution kit for the MP6501A stepper motor driver
- Built-in microcontroller and USB interface connects with the included easy-to-use Windows GUI
- Can also be controlled externally

**Brushless DC**

**MP6530 Solution Kit (EVKT6530) $119**
- Solution kit for the MP6530 3-phase pre-driver to drive a brushless DC motor
- Microcontroller with open-loop speed control and Hall commutation built-in
- 3mΩ FETs on-board can drive up to 60V, 15A motors

**MP6532 Solution Kit (EVKT6532) $119**
- Solution kit for the MP6532 3-phase pre-driver with Hall sensor inputs
- Microcontroller with open-loop PWM speed control built-in
- 3mΩ FETs on-board can drive up to 60V, 15A motors
Brushed DC Motor & Solenoid

**MP6513 Solution Kit (EVKT6513) $79**
- Simple solution kit for the MP6513 H-bridge motor driver
- Open-loop PWM speed control built-in
- Small size: 30x35mm

**MP6515 Solution Kit (EVKT6515) $79**
- Simple solution kit for the MP6515 H-bridge motor driver
- Open-loop PWM speed control built-in
- Small size: 30x35mm

*Images not to scale*
ABOUT MONOLITHIC POWER SYSTEMS

Who we are:

We are creative thinkers. We break boundaries. We take technology to new levels. As a leading international semiconductor company, Monolithic Power Systems (MPS) creates cutting-edge solutions to improve the quality of life with green, easy-to-use products.

What we do:

We make power design fun! With our innovative proprietary technology processes, we thrive on re-imagining and re-defining the possibilities of high-performance power solutions in industrial applications, telecom infrastructures, cloud computing, automotive, and consumer applications.

Where we come from:

It started with a vision. Michael Hsing, pioneering engineer and CEO, founded Monolithic Power Systems, Inc. in 1997 with the belief that an entire power system could be integrated onto a single chip. Under his leadership, MPS has succeeded not only in developing a monolithic power module that truly integrates an entire power system in a single package, but also it continues to defy industry expectations with its patented groundbreaking technologies.

Our values:

We cultivate creativity
As a company we believe in creating an environment that encourages and challenges our employees to collaborate and think outside the box to excel beyond their preconceived capabilities.

We do not accept the status quo
We do not believe in limitations. It is not about what is, but what can be. Possibilities are endless at MPS.

We are passionate about sustainability
It’s about the future. From materials to finances, we are committed to conservation. We will not tolerate waste in an effort to improve and preserve the quality of life.

We are committed to providing innovative products to our customers.
Let us do the heavy lifting. We relentlessly strive to make system design versatile and effortless to meet our customers’ specific needs. We’ll do the work, so our customers can have the fun!
CONTACT & ORDERING

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