The High Performance Pick and Hold Solenoid Driver Module is designed to avoid over heating of the solenoid coil once it is energized. It is done by applying an initial higher voltage to the solenoid coil to provide the necessary force (torque) to pull the plunger in. Then, when seated, drops the voltage down to a level sufficient to maintain the plunger in the seated position.

The pick time and hold voltage are variable and set using the onboard potentiometers.

This product is RoHS complaint.

**Features**

- Plug-and-Play
- Quick and Easy to Install
- Low Cost
- Small Size
- Low Weight
- Highly Efficient
- Stand Alone
- Microcomputer Based, May Be Re-programmed for Your Application
- Highly Reliable
- Pulse Width Modulated (PWM)
- Single Supply, from +9 VDC to +50 VDC
- High Supply Voltage, +50 VDC
- High Output Current 15 Amps Peak, 4 Amps RMS
- RoHS Compliant

**Typical Applications**

- Solenoids
- Valves
- Relays
- Actuators
- Voice Coil Actuators
- DC Motors
- Hydraulics
- Electromagnets
- LEDs

**Performance Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Voltage</td>
<td>9</td>
<td>50</td>
<td>VDC</td>
<td></td>
</tr>
<tr>
<td>Peak Current</td>
<td>15</td>
<td></td>
<td>Amp</td>
<td></td>
</tr>
<tr>
<td>Average Current</td>
<td>4</td>
<td></td>
<td>Amp</td>
<td></td>
</tr>
<tr>
<td>Command Range</td>
<td>3</td>
<td>Supply Voltage</td>
<td>VDC</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0</td>
<td>50</td>
<td>Deg C</td>
<td></td>
</tr>
</tbody>
</table>
### Performance Table

<table>
<thead>
<tr>
<th>Input Signal</th>
<th>Pick Voltage</th>
<th>Pick Time</th>
<th>Hold Voltage</th>
<th>Hold Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulse, 3-50 VDC</td>
<td>Equal to Power Supply Voltage</td>
<td>Variable, Set by a Trim Potentiometer, 0 to 2000 msec</td>
<td>Variable, Set by a Trim Potentiometer, 0 to 100% of supply voltage</td>
<td>Indefinite</td>
</tr>
</tbody>
</table>

### Timing Diagram

**Voltage Across the Device**

- **Power Source Voltage**
- **Adjustable Using Onboard Potentiometer**
- **Command**
- **Adjustable Using Onboard Potentiometer**
- **Minimum 3 VDC**

### Mechanical Specifications

**Mounting Pattern**

Four 6-32 Screws, 0.15" Diameter (3.8 mm)

**Dimensions**

3.00" W, 3.00" D, 0.85" H (76.2 mm, 76.2 mm, 21.5 mm)