12 V

TPS259631 (e-Fuse)

TVS1400 (Surge Protection)

DRV8847

Bipolar Stepper

OUT1

OUT2

OUT3

OUT4

I2C

Temperature sense

MCU- MSP430FR5739

LOAD1

LOAD2

LOAD3

LOAD4

OUT1

OUT2

OUT3

OUT4

12 V

TPS561201 (TIDA-01447)

Brushed DC Motor

3.3V

2-pin

3-pin

2-pin

Public Release

Designed for:

Engineer:

Manu Balakrishnan

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Not in version control

SVN Rev:

TIDA-010004

Number: Rev: E3

TID #: 010004

Orderable: N/A
Microcontroller

Input 12V supply

3.3V supply from TIDA-01447

Stepper, Solenoid & Actuator Drives

12V/15W Brushed DC drive

Connect R13 and R14 and disconnect R15 and R16, for Half Stepping, 4-pin control

Disconnect R13 and R14 and connect R15 and R16, for Full Stepping, 2-pin control

DRV8847 driving bi-polar stepper

DRV8847 driving independent loads

DRV8847 driving brushed DC motor

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### Label Table

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>ChangeMe!</td>
</tr>
<tr>
<td>002</td>
<td>ChangeMe!</td>
</tr>
</tbody>
</table>

#### Assembly Notes

1. **Assembly Note:** These assemblies are ESD sensitive. ESD precautions shall be observed.

2. **Assembly Note:** These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

3. **Assembly Note:** These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.
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