

## 5A LOW DROPOUT LINEAR REGULATOR

**AZ1084**

### General Description

The AZ1084 is a series of low dropout positive voltage regulators with a maximum dropout of 1.5V at 5A of load current.

The series features on-chip thermal limiting which provides protection against any combination of overload and ambient temperatures that would create excessive junction temperatures. It also includes a trimmed band-gap reference and a current limiting circuit.

The AZ1084 is available in 1.5V, 1.8V, 2.5V, 2.85V, 3.3V and 5.0V versions. The fixed versions integrate the adjust resistors. It is also available in an adjustable version which can set the output voltage with two external resistors.

The AZ1084 series is available in standard packages of TO-263-2, TO-263-3, TO-220 and TO-252.

### Features

- Low Dropout Voltage: 1.3V Typically at 5A
- Current Limiting and Thermal Protection
- Output Current: 5A
- Current Limit: 6.5A
- Operating Junction Temperature Range: 0 to 125°C
- Line Regulation: 0.015% (Typical)
- Load Regulation: 0.2% (Typical)

### Applications

- High Efficiency Linear Regulators
- Battery Chargers
- Post Regulation for Switching Supply
- Microprocessor Supply
- Desktop PCs, RISC and Embedded Processors' Supply

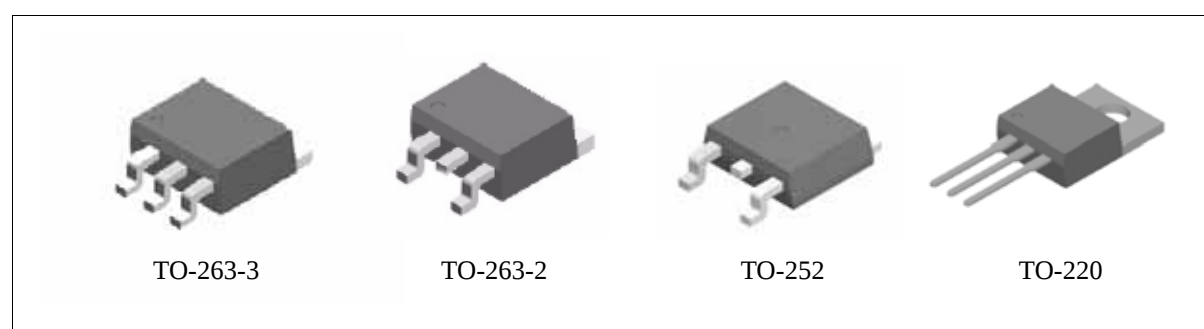


Figure 1. Package Types of AZ1084

# 5A LOW DROPOUT LINEAR REGULATOR

AZ1084

## Pin Configuration

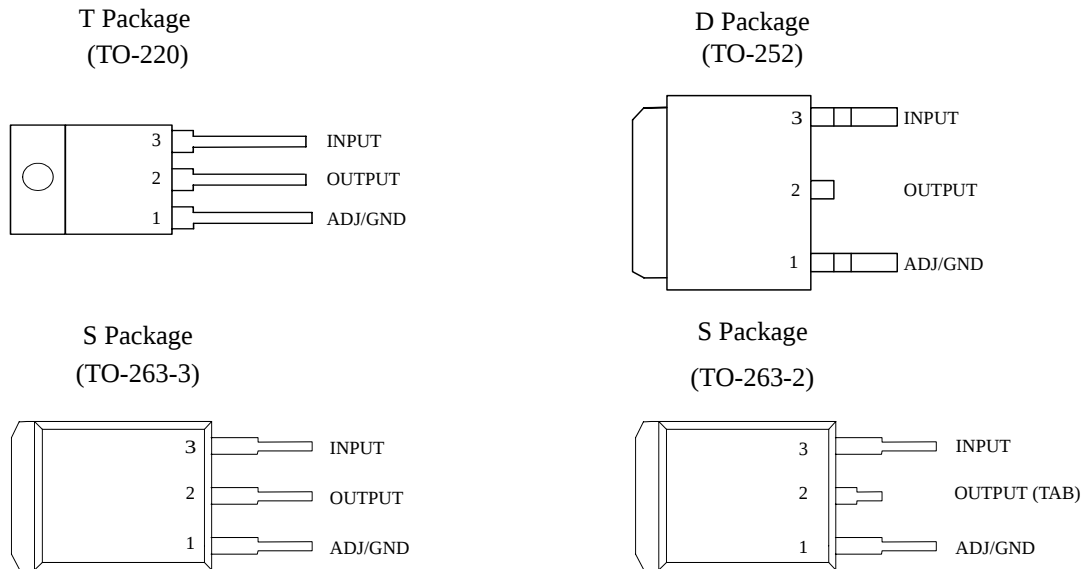


Figure 2. Pin Configuration of AZ1084 (Top View)

## Functional Block Diagram

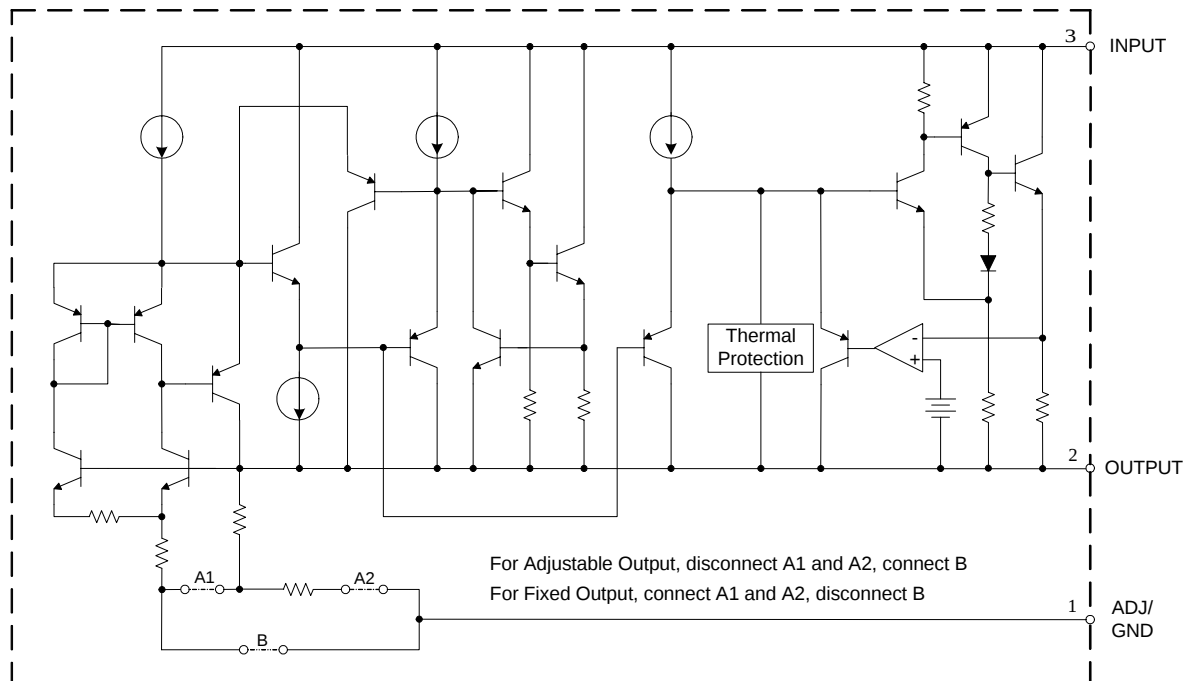


Figure 3. Functional Block Diagram of AZ1084

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**AZ1084**

## Ordering Information

|              |        |           |                                                                                                                                                                                      |
|--------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | AZ1084 | □ - □ □ □ |                                                                                                                                                                                      |
| Circuit Type |        |           | E1: Lead Free<br>Blank: Tin Lead<br>TR: Tape and Reel<br>Blank: Tube                                                                                                                 |
| Package      |        |           | ADJ: Adjustable Output<br>1.5: Fixed Output 1.5V<br>1.8: Fixed Output 1.8V<br>2.5: Fixed Output 2.5V<br>2.85: Fixed Output 2.85V<br>3.3: Fixed Output 3.3V<br>5.0: Fixed Output 5.0V |
| D: TO-252    |        |           |                                                                                                                                                                                      |
| T: TO-220    |        |           |                                                                                                                                                                                      |
| S: TO-263-3  |        |           |                                                                                                                                                                                      |
| S2: TO-263-2 |        |           |                                                                                                                                                                                      |

| Package | Temperature Range | Part Number    |                  | Marking ID   |                | Packing Type |
|---------|-------------------|----------------|------------------|--------------|----------------|--------------|
|         |                   | Tin Lead       | Lead Free        | Tin Lead     | Lead Free      |              |
| TO-252  | 0 to 125°C        | AZ1084D-ADJ    | AZ1084D-ADJE1    | AZ1084D-ADJ  | AZ1084D-ADJE1  | Tube         |
|         |                   | AZ1084D-ADJTR  | AZ1084D-ADJTRE1  | AZ1084D-ADJ  | AZ1084D-ADJE1  | Tape & Reel  |
|         |                   | AZ1084D-1.5    | AZ1084D-1.5E1    | AZ1084D-1.5  | AZ1084D-1.5E1  | Tube         |
|         |                   | AZ1084D-1.5TR  | AZ1084D-1.5TRE1  | AZ1084D-1.5  | AZ1084D-1.5E1  | Tape & Reel  |
|         |                   | AZ1084D-1.8    | AZ1084D-1.8E1    | AZ1084D-1.8  | AZ1084D-1.8E1  | Tube         |
|         |                   | AZ1084D-1.8TR  | AZ1084D-1.8TRE1  | AZ1084D-1.8  | AZ1084D-1.8E1  | Tape & Reel  |
|         |                   | AZ1084D-2.5    | AZ1084D-2.5E1    | AZ1084D-2.5  | AZ1084D-2.5E1  | Tube         |
|         |                   | AZ1084D-2.5TR  | AZ1084D-2.5TRE1  | AZ1084D-2.5  | AZ1084D-2.5E1  | Tape & Reel  |
|         |                   | AZ1084D-2.85   | AZ1084D-2.85E1   | AZ1084D-2.85 | AZ1084D-2.85E1 | Tube         |
|         |                   | AZ1084D-2.85TR | AZ1084D-2.85TRE1 | AZ1084D-2.85 | AZ1084D-2.85E1 | Tape & Reel  |
|         |                   | AZ1084D-3.3    | AZ1084D-3.3E1    | AZ1084D-3.3  | AZ1084D-3.3E1  | Tube         |
|         |                   | AZ1084D-3.3TR  | AZ1084D-3.3TRE1  | AZ1084D-3.3  | AZ1084D-3.3E1  | Tape & Reel  |
|         |                   | AZ1084D-5.0    | AZ1084D-5.0E1    | AZ1084D-5.0  | AZ1084D-5.0E1  | Tube         |
|         |                   | AZ1084D-5.0TR  | AZ1084D-5.0TRE1  | AZ1084D-5.0  | AZ1084D-5.0E1  | Tape & Reel  |
| TO-220  | 0 to 125°C        | AZ1084T-ADJ    | AZ1084T-ADJE1    | AZ1084T-ADJ  | AZ1084T-ADJE1  | Tube         |
|         |                   | AZ1084T-1.5    | AZ1084T-1.5E1    | AZ1084T-1.5  | AZ1084T-1.5E1  | Tube         |
|         |                   | AZ1084T-1.8    | AZ1084T-1.8E1    | AZ1084T-1.8  | AZ1084T-1.8E1  | Tube         |
|         |                   | AZ1084T-2.5    | AZ1084T-2.5E1    | AZ1084T-2.5  | AZ1084T-2.5E1  | Tube         |
|         |                   | AZ1084T-2.85   | AZ1084T-2.85E1   | AZ1084T-2.85 | AZ1084T-2.85E1 | Tube         |
|         |                   | AZ1084T-3.3    | AZ1084T-3.3E1    | AZ1084T-3.3  | AZ1084T-3.3E1  | Tube         |
|         |                   | AZ1084T-5.0    | AZ1084T-5.0E1    | AZ1084T-5.0  | AZ1084T-5.0E1  | Tube         |

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## Ordering Information (Continued)

| Package  | Temperature Range | Part Number     |                   | Marking ID    |                 | Packing Type |
|----------|-------------------|-----------------|-------------------|---------------|-----------------|--------------|
|          |                   | Tin Lead        | LeadFree          | Tin Lead      | LeadFree        |              |
| TO-263-3 | 0 to 125°C        | AZ1084S-ADJ     | AZ1084S-ADJE1     | AZ1084S-ADJ   | AZ1084S-ADJE1   | Tube         |
|          |                   | AZ1084S-ADJTR   | AZ1084S-ADJTRE1   | AZ1084S-ADJ   | AZ1084S-ADJE1   | Tape & Reel  |
|          |                   | AZ1084S-1.5     | AZ1084S-1.5E1     | AZ1084S-1.5   | AZ1084S-1.5E1   | Tube         |
|          |                   | AZ1084S-1.5TR   | AZ1084S-1.5TRE1   | AZ1084S-1.5   | AZ1084S-1.5E1   | Tape & Reel  |
|          |                   | AZ1084S-1.8     | AZ1084S-1.8E1     | AZ1084S-1.8   | AZ1084S-1.8E1   | Tube         |
|          |                   | AZ1084S-1.8TR   | AZ1084S-1.8TRE1   | AZ1084S-1.8   | AZ1084S-1.8E1   | Tape & Reel  |
|          |                   | AZ1084S-2.5     | AZ1084S-2.5E1     | AZ1084S-2.5   | AZ1084S-2.5E1   | Tube         |
|          |                   | AZ1084S-2.5TR   | AZ1084S-2.5TRE1   | AZ1084S-2.5   | AZ1084S-2.5E1   | Tape & Reel  |
|          |                   | AZ1084S-2.85    | AZ1084S-2.85E1    | AZ1084S-2.85  | AZ1084S-2.85E1  | Tube         |
|          |                   | AZ1084S-2.85TR  | AZ1084S-2.85TRE1  | AZ1084S-2.85  | AZ1084S-2.85E1  | Tape & Reel  |
|          |                   | AZ1084S-3.3     | AZ1084S-3.3E1     | AZ1084S-3.3   | AZ1084S-3.3E1   | Tube         |
|          |                   | AZ1084S-3.3TR   | AZ1084S-3.3TRE1   | AZ1084S-3.3   | AZ1084S-3.3E1   | Tape & Reel  |
|          |                   | AZ1084S-5.0     | AZ1084S-5.0E1     | AZ1084S-5.0   | AZ1084S-5.0E1   | Tube         |
|          |                   | AZ1084S-5.0TR   | AZ1084S-5.0TRE1   | AZ1084S-5.0   | AZ1084S-5.0E1   | Tape & Reel  |
| TO-263-2 | 0 to 125°C        | AZ1084S2-ADJ    | AZ1084S2-ADJE1    | AZ1084S2-ADJ  | AZ1084S2-ADJE1  | Tube         |
|          |                   | AZ1084S2-ADJTR  | AZ1084S2-ADJTRE1  | AZ1084S2-ADJ  | AZ1084S2-ADJE1  | Tape & Reel  |
|          |                   | AZ1084S2-1.5    | AZ1084S2-1.5E1    | AZ1084S2-1.5  | AZ1084S2-1.5E1  | Tube         |
|          |                   | AZ1084S2-1.5TR  | AZ1084S2-1.5TRE1  | AZ1084S2-1.5  | AZ1084S2-1.5E1  | Tape & Reel  |
|          |                   | AZ1084S2-1.8    | AZ1084S2-1.8E1    | AZ1084S2-1.8  | AZ1084S2-1.8E1  | Tube         |
|          |                   | AZ1084S2-1.8TR  | AZ1084S2-1.8TRE1  | AZ1084S2-1.8  | AZ1084S2-1.8E1  | Tape & Reel  |
|          |                   | AZ1084S2-2.5    | AZ1084S2-2.5E1    | AZ1084S2-2.5  | AZ1084S2-2.5E1  | Tube         |
|          |                   | AZ1084S2-2.5TR  | AZ1084S2-2.5TRE1  | AZ1084S2-2.5  | AZ1084S2-2.5E1  | Tape & Reel  |
|          |                   | AZ1084S2-2.85   | AZ1084S2-2.85E1   | AZ1084S2-2.85 | AZ1084S2-2.85E1 | Tube         |
|          |                   | AZ1084S2-2.85TR | AZ1084S2-2.85TRE1 | AZ1084S2-2.85 | AZ1084S2-2.85E1 | Tape & Reel  |
|          |                   | AZ1084S2-3.3    | AZ1084S2-3.3E1    | AZ1084S2-3.3  | AZ1084S2-3.3E1  | Tube         |
|          |                   | AZ1084S2-3.3TR  | AZ1084S2-3.3TRE1  | AZ1084S2-3.3  | AZ1084S2-3.3E1  | Tape & Reel  |
|          |                   | AZ1084S2-5.0    | AZ1084S2-5.0E1    | AZ1084S2-5.0  | AZ1084S2-5.0E1  | Tube         |
|          |                   | AZ1084S2-5.0TR  | AZ1084S2-5.0TRE1  | AZ1084S2-5.0  | AZ1084S2-5.0E1  | Tape & Reel  |

BCD Semiconductor's Pb-free products, as designated with "E1" suffix in the part number, are RoHS compliant.

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### Absolute Maximum Ratings (Note 1)

| Parameter                             | Symbol            | Min | Max  | Unit               |
|---------------------------------------|-------------------|-----|------|--------------------|
| Operating Junction Temperature Range  | $T_J$             |     | 150  | $^{\circ}\text{C}$ |
| Storage Temperature Range             | $T_S$             | -65 | 150  | $^{\circ}\text{C}$ |
| Lead Temperature (Soldering, 10 sec.) | $T_{\text{LEAD}}$ |     | 300  | $^{\circ}\text{C}$ |
| ESD (Human Body Model)                | ESD               |     | 2000 | V                  |

Note 1: Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "Recommended Operating Conditions" is not implied. Exposure to "Absolute Maximum Ratings" for extended periods may affect device reliability.

### Recommended Operating Conditions

| Parameter                            | Symbol          | Min | Max | Unit               |
|--------------------------------------|-----------------|-----|-----|--------------------|
| Input Voltage                        | $V_{\text{IN}}$ |     | 12  | V                  |
| Operating Junction Temperature Range | $T_J$           | 0   | 125 | $^{\circ}\text{C}$ |

## 5A LOW DROPOUT LINEAR REGULATOR

**AZ1084**

### Electrical Characteristics

Typicals and limits appearing in normal type apply for  $T_J = 25^\circ\text{C}$ . Limits appearing in **Boldface** type apply over the entire operating junction temperature range.

| Parameter         | Symbol           | Conditions                                                                                                                                                                  | Min                   | Typ                   | Max                   | Unit |
|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------|
| Reference Voltage | $V_{REF}$        | AZ1084-ADJ,<br>$I_{OUT} = 10\text{mA}$ , $V_{IN} - V_{OUT} = 3\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $1.5\text{V} \leq V_{IN} - V_{OUT} \leq 5\text{V}$ | 1.238<br><b>1.225</b> | 1.250<br><b>1.250</b> | 1.262<br><b>1.270</b> | V    |
| Output Voltage    | $V_{OUT}$        | AZ1084-1.5,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 4.5\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $3.1\text{V} \leq V_{IN} \leq 6\text{V}$                    | 1.485<br><b>1.47</b>  | 1.5<br><b>1.5</b>     | 1.515<br><b>1.53</b>  | V    |
|                   |                  | AZ1084-1.8,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 4.8\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $3.4\text{V} \leq V_{IN} \leq 6\text{V}$                    | 1.782<br><b>1.764</b> | 1.8<br><b>1.8</b>     | 1.818<br><b>1.836</b> | V    |
|                   |                  | AZ1084-2.5,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 5.5\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $4.1\text{V} \leq V_{IN} \leq 7\text{V}$                    | 2.475<br><b>2.45</b>  | 2.5<br><b>2.5</b>     | 2.525<br><b>2.55</b>  | V    |
|                   |                  | AZ1084-2.85,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 6\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $4.5\text{V} \leq V_{IN} \leq 8\text{V}$                     | 2.822<br><b>2.793</b> | 2.85<br><b>2.85</b>   | 2.879<br><b>2.907</b> | V    |
|                   |                  | AZ1084-3.3,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 6.3\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $4.9\text{V} \leq V_{IN} \leq 8\text{V}$                    | 3.267<br><b>3.234</b> | 3.3<br><b>3.3</b>     | 3.333<br><b>3.366</b> | V    |
|                   |                  | AZ1084-5.0,<br>$I_{OUT} = 0\text{mA}$ , $V_{IN} = 8\text{V}$ ,<br>$10\text{mA} \leq I_{OUT} \leq 5\text{A}$ , $6.6\text{V} \leq V_{IN} \leq 10\text{V}$                     | 4.95<br><b>4.9</b>    | 5<br><b>5</b>         | 5.05<br><b>5.1</b>    | V    |
| Line Regulation   | $\Delta V_{OUT}$ | AZ1084-ADJ,<br>$I_{OUT} = 10\text{mA}$ , $2.85\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                         |                       | 0.015<br><b>0.035</b> | 0.2<br><b>0.2</b>     | %    |
|                   |                  | AZ1084-1.5,<br>$I_{OUT} = 10\text{mA}$ , $3.1\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                          |                       | 0.5<br><b>1</b>       | 6<br><b>6</b>         | mV   |
|                   |                  | AZ1084-1.8,<br>$I_{OUT} = 10\text{mA}$ , $3.4\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                          |                       | 0.5<br><b>1</b>       | 6<br><b>6</b>         | mV   |
|                   |                  | AZ1084-2.5,<br>$I_{OUT} = 10\text{mA}$ , $4.1\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                          |                       | 0.5<br><b>1</b>       | 6<br><b>6</b>         | mV   |
|                   |                  | AZ1084-2.85,<br>$I_{OUT} = 10\text{mA}$ , $4.5\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                         |                       | 0.5<br><b>1</b>       | 6<br><b>6</b>         | mV   |
|                   |                  | AZ1084-3.3,<br>$I_{OUT} = 10\text{mA}$ , $4.9\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                          |                       | 0.5<br><b>1</b>       | 6<br><b>6</b>         | mV   |
|                   |                  | AZ1084-5.0,<br>$I_{OUT} = 10\text{mA}$ , $6.6\text{V} \leq V_{IN} \leq 10\text{V}$                                                                                          |                       | 0.5<br><b>1</b>       | 10<br><b>10</b>       | mV   |

## 5A LOW DROPOUT LINEAR REGULATOR

**AZ1084**

### Electrical Characteristics (Continued)

Typicals and limits appearing in normal type apply for  $T_J = 25^\circ\text{C}$ . Limits appearing in **Boldface** type apply over the entire operating junction temperature range.

| Parameter                            | Symbol           | Conditions                                                                                                                  | Min       | Typ               | Max               | Unit               |
|--------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|
| Load Regulation                      | $\Delta V_{OUT}$ | AZ1084-ADJ, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 0.1<br><b>0.2</b> | 0.3<br><b>0.4</b> | %                  |
|                                      |                  | AZ1084-1.5, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 3<br><b>7</b>     | 15<br><b>20</b>   | mV                 |
|                                      |                  | AZ1084-1.8, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 3<br><b>7</b>     | 15<br><b>20</b>   | mV                 |
|                                      |                  | AZ1084-2.5, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 3<br><b>7</b>     | 15<br><b>20</b>   | mV                 |
|                                      |                  | AZ1084-2.85, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                   |           | 3<br><b>7</b>     | 15<br><b>20</b>   | mV                 |
|                                      |                  | AZ1084-3.3, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 3<br><b>7</b>     | 15<br><b>20</b>   | mV                 |
|                                      |                  | AZ1084-5.0, $0\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$V_{IN} - V_{OUT} = 3\text{V}$                                    |           | 5<br><b>10</b>    | 20<br><b>35</b>   | mV                 |
| Dropout Voltage                      |                  | $I_O = 5\text{A}$ , $\Delta V_{REF} \Delta V_{OUT} = 1\%$                                                                   |           | 1.3               | 1.5               | V                  |
| Current Limit                        | $I_{LIMIT}$      | $V_{IN} - V_{OUT} = 3\text{V}$ ,                                                                                            | 5.5       | 6.5               |                   | A                  |
| Minimum Load Current                 |                  | $V_{IN} = 10\text{V}$ (AZ1084-ADJ)                                                                                          |           | <b>3</b>          | <b>10</b>         | mA                 |
| Quiescent Current                    |                  | $V_{IN} = 10\text{V}$ (AZ1084)                                                                                              |           | <b>5</b>          | <b>10</b>         | mA                 |
| Ripple Rejection                     |                  | $f_{RIPPLE} = 120\text{Hz}$ , $C_{OUT} = 25\mu\text{F}$ Tantalum,<br>$I_{OUT} = 5\text{A}$ , $V_{IN} - V_{OUT} = 3\text{V}$ | <b>60</b> | <b>72</b>         |                   | dB                 |
| Adjust Pin Current                   |                  | $V_{IN} = 4.25\text{V}$ , $I_{OUT} = 10\text{mA}$                                                                           |           | 55                | <b>120</b>        | $\mu\text{A}$      |
| Adjust Pin Current Change            |                  | $10\text{mA} \leq I_{OUT} \leq 5\text{A}$ ,<br>$1.5\text{V} \leq (V_{IN} - V_{OUT}) \leq 4.5\text{V}$                       |           | <b>0.2</b>        | <b>5</b>          | $\mu\text{A}$      |
| Temperature Stability                |                  | $I_{OUT} = 10\text{mA}$ , $V_{IN} - V_{OUT} = 1.5$                                                                          |           | <b>0.5</b>        |                   | %                  |
| Long Term Stability                  |                  | $T_A = 125^\circ\text{C}$ , 1000Hrs                                                                                         |           | 0.5               |                   | %                  |
| RMS Noise (% of $V_{OUT}$ )          |                  | $10\text{Hz} \leq f \leq 10\text{kHz}$                                                                                      |           | 0.003             |                   | %                  |
| Thermal Resistance Junction -to-Case | $\theta_{JC}$    | TO-263<br>TO-220<br>TO-252                                                                                                  |           | 3<br>3<br>4       |                   | $^\circ\text{C/W}$ |

## 5A LOW DROPOUT LINEAR REGULATOR

AZ1084

### Typical Performance Characteristics

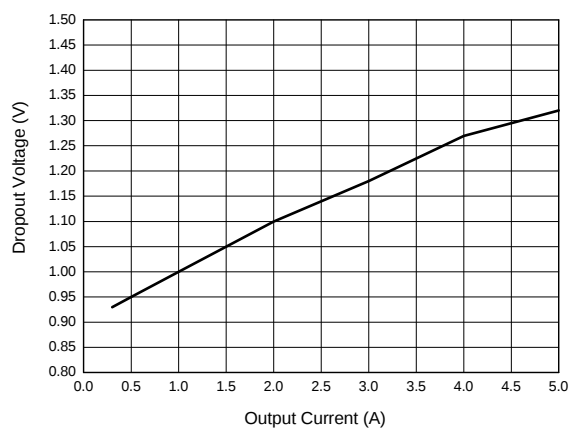


Figure 4. Dropout Voltage vs. Output Current

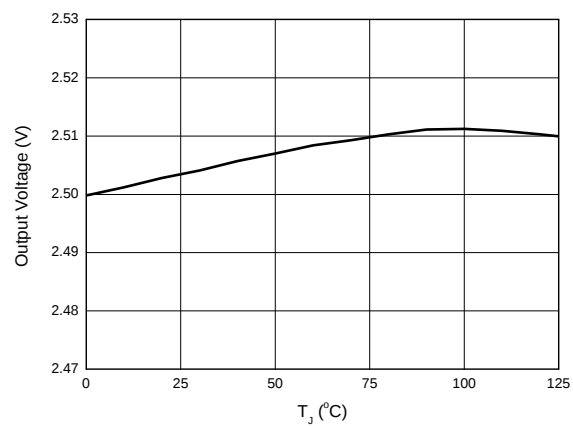


Figure 5. Output Voltage vs. Temperature

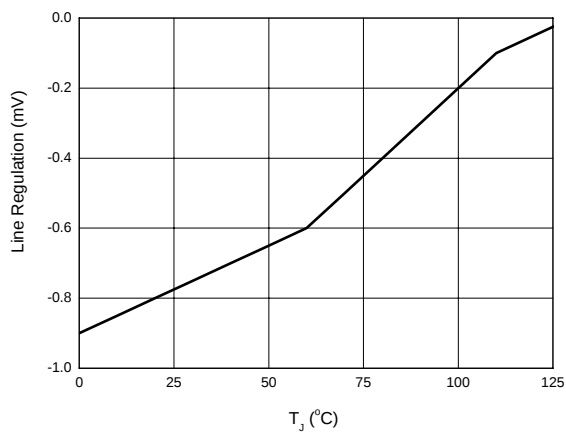


Figure 6. Line Regulation vs. Temperature

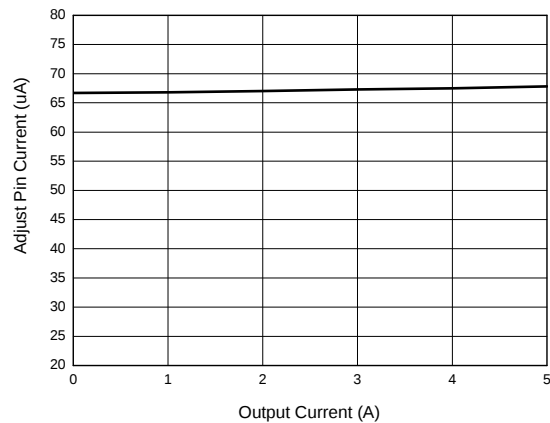


Figure 7. Adjust Pin Current vs. Output Current

# 5A LOW DROPOUT LINEAR REGULATOR

AZ1084

## Typical Performance Characteristics (Continued)

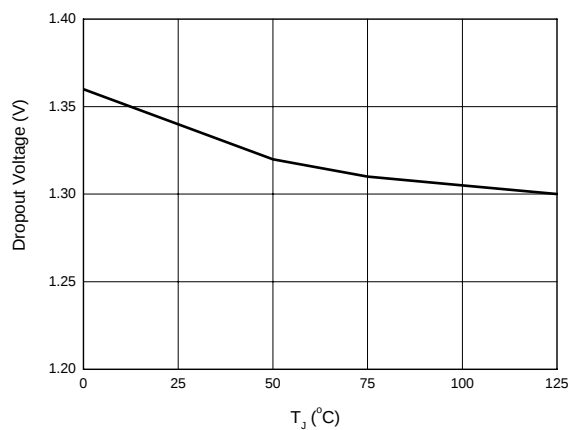


Figure 8. Dropout Voltage vs. Temperature

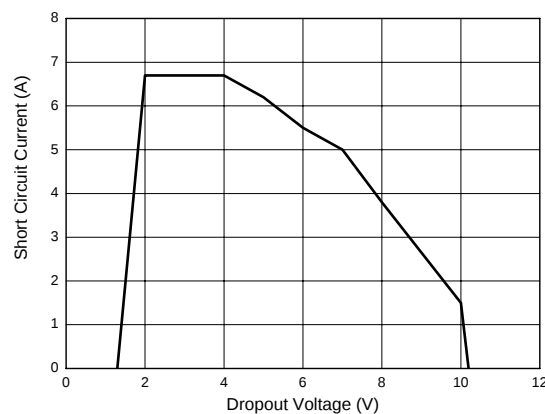


Figure 9. Short Circuit Current vs. Dropout Voltage

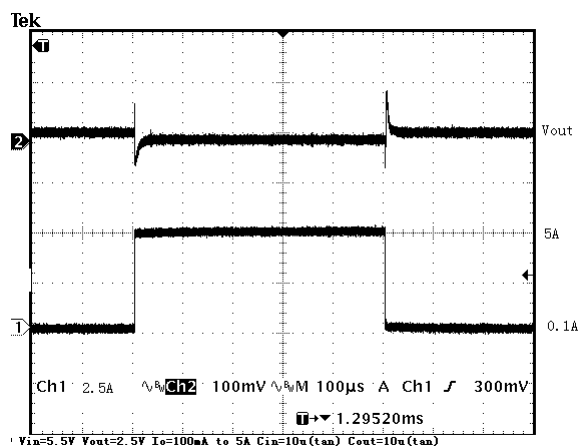


Figure 10. Load Transient Response

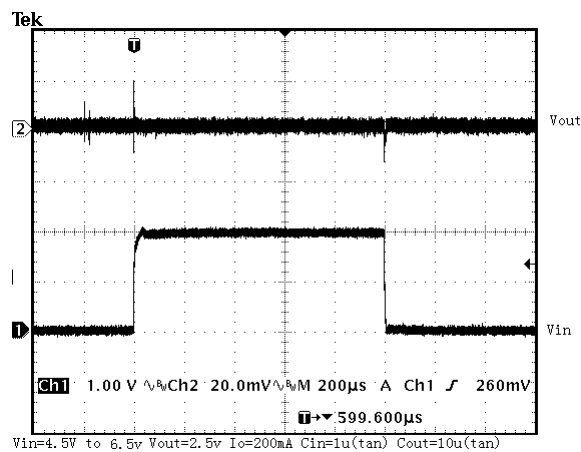


Figure 11. Line Transient Response

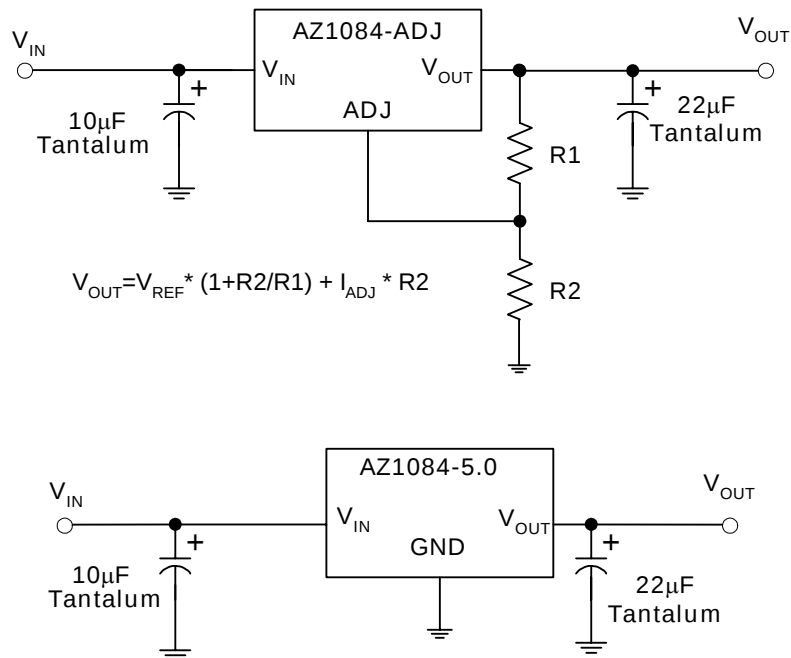
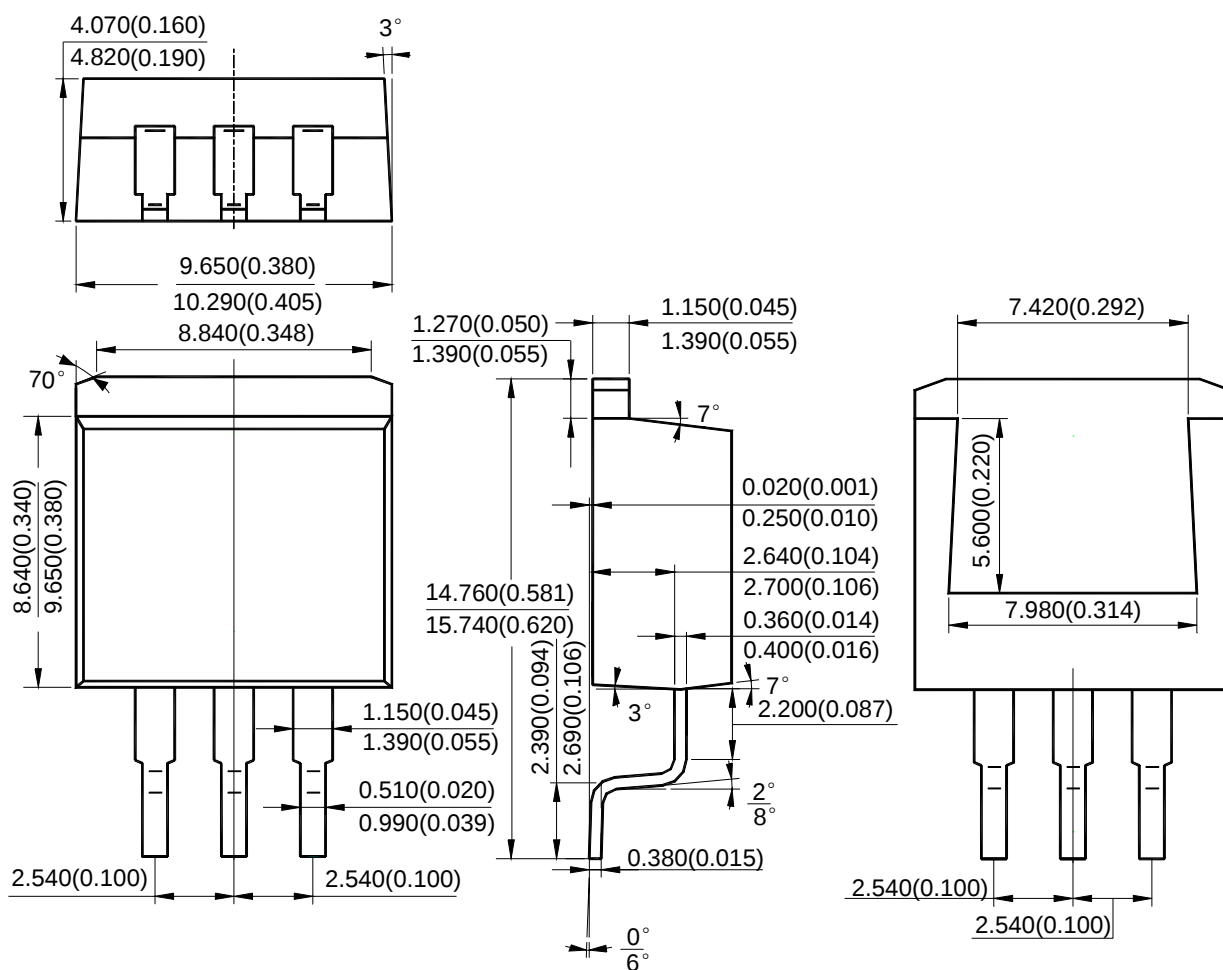
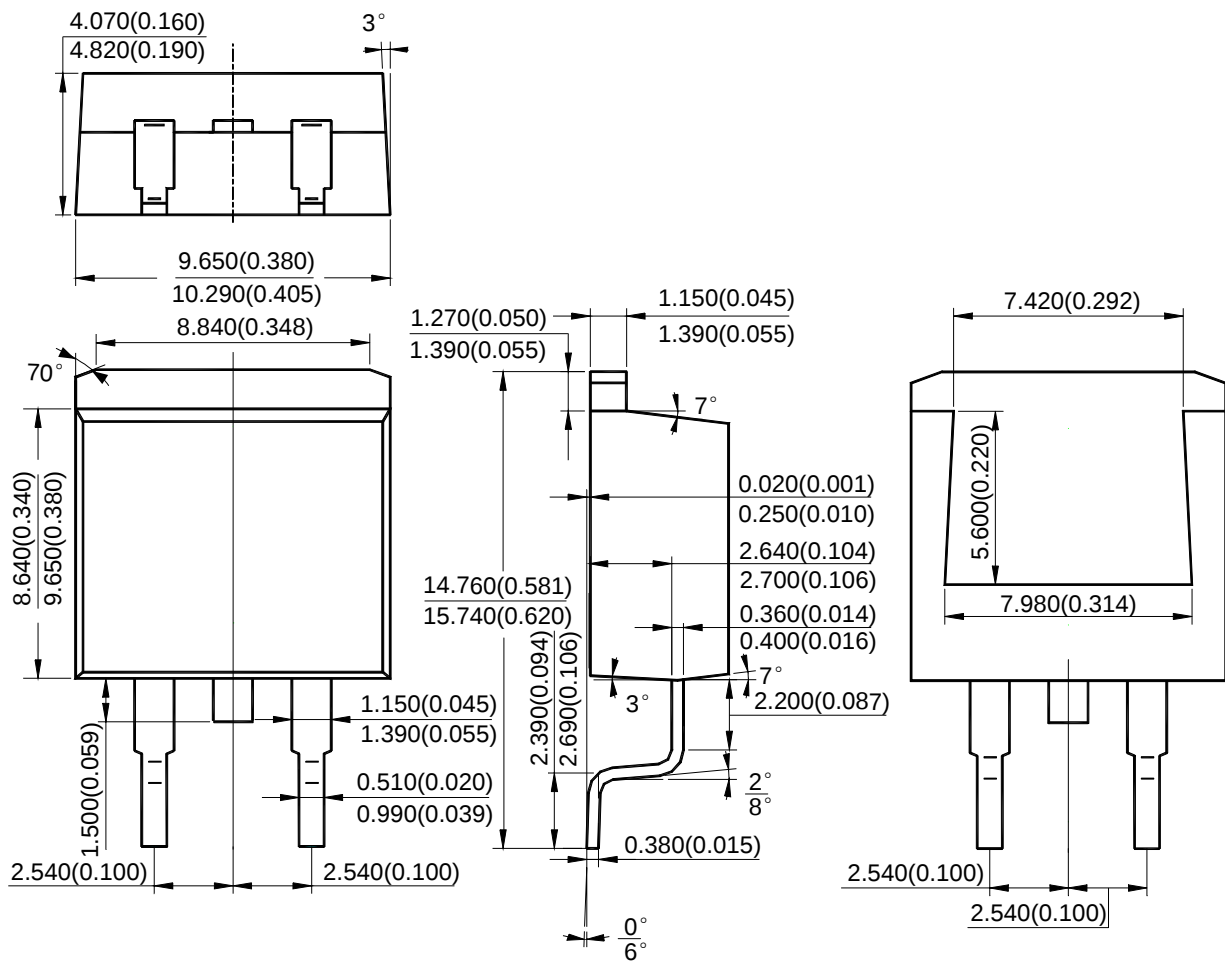
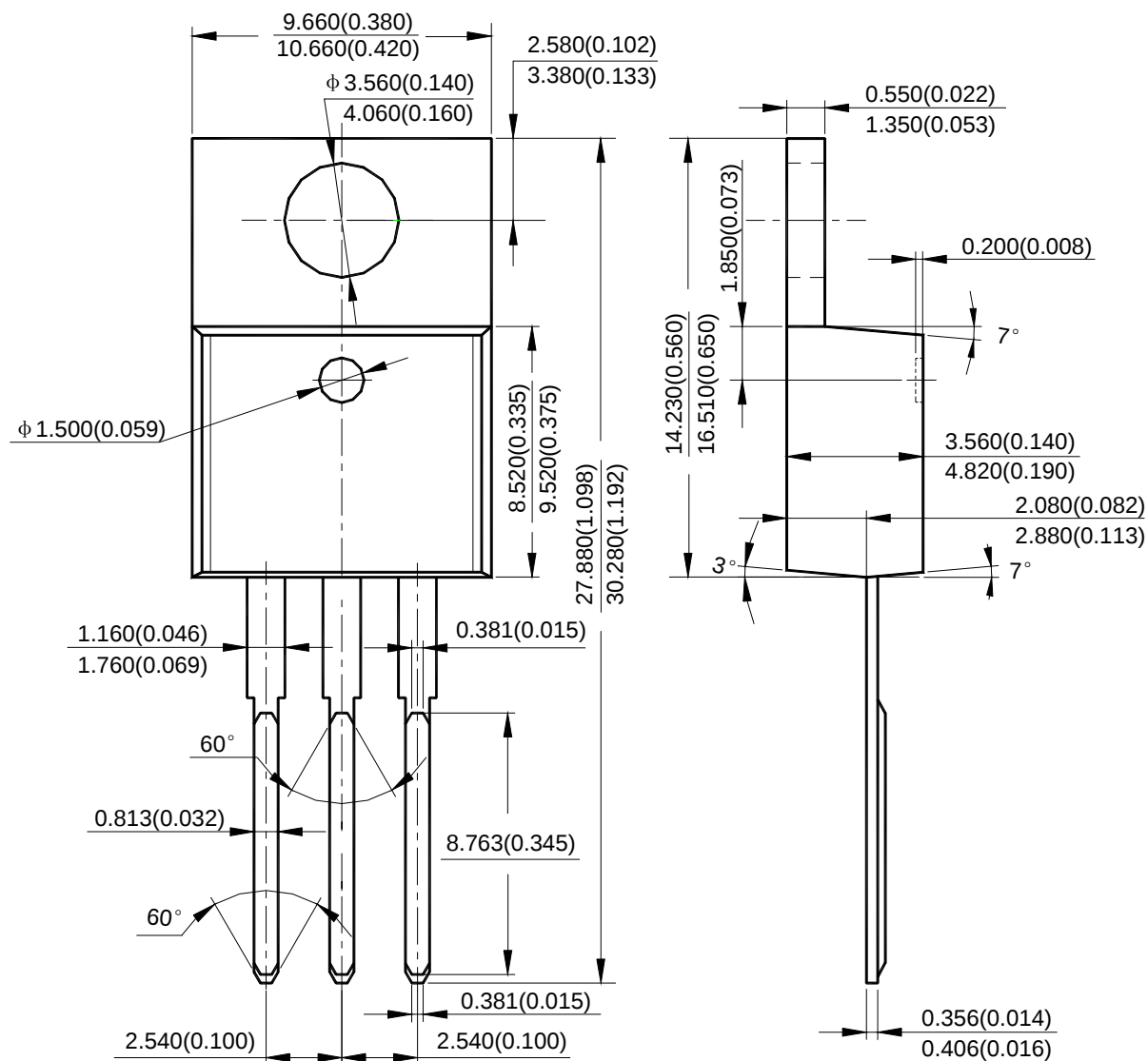
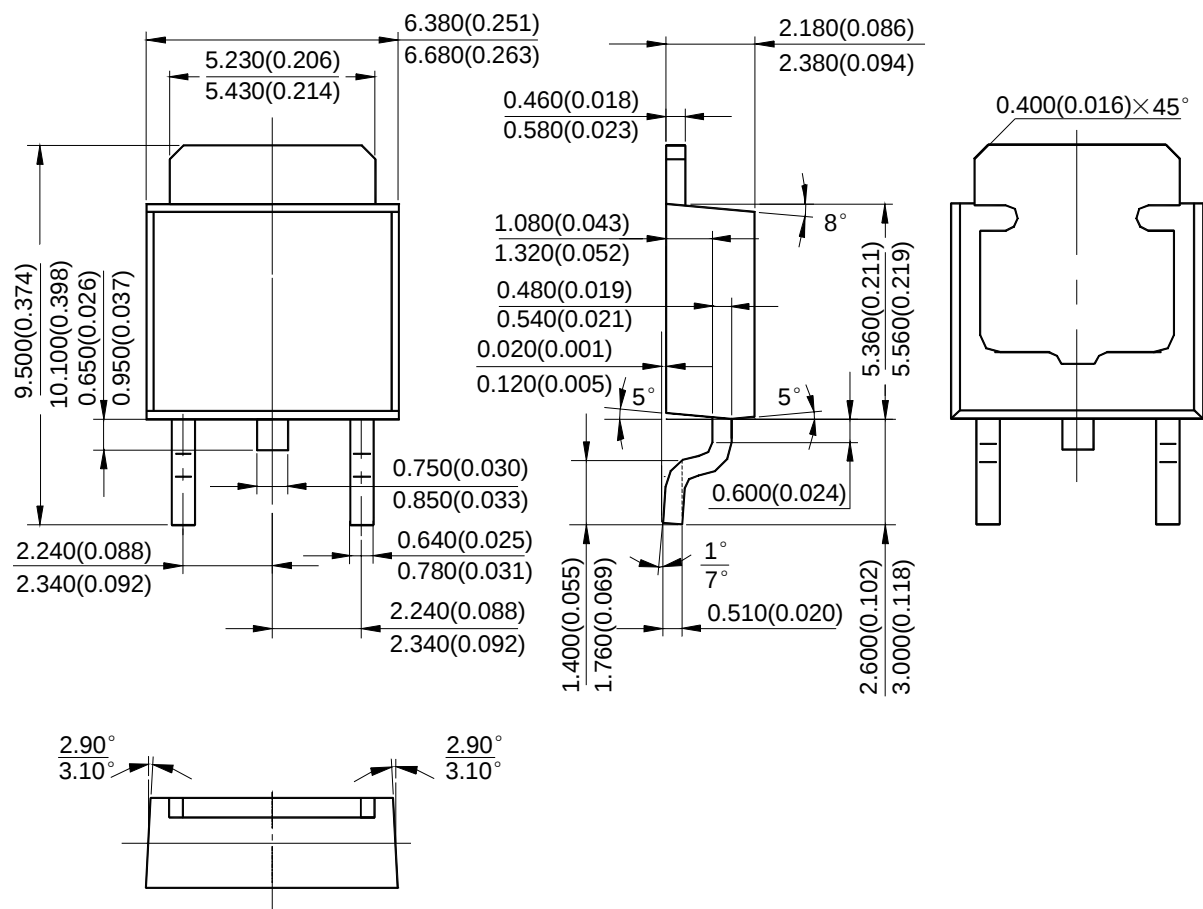
**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Typical Application**

Figure 12. Typical Applications of AZ1084

**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Mechanical Dimensions****TO-263-3****Unit: mm(inch)**

**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Mechanical Dimensions (Continued)****TO-263-2****Unit: mm(inch)**

**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Mechanical Dimensions (Continued)****TO-220****Unit: mm(inch)**

**5A LOW DROPOUT LINEAR REGULATOR****AZ1084****Mechanical Dimensions (Continued)****TO-252****Unit: mm(inch)**



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