



General Description

The AME8806/8809/8842 family of positive, linear regulators feature low quiescent current (30µA typ.) with low dropout voltage, making them ideal for battery applications. The space-saving SO-8 package is attractive for "Pocket" and "Hand Held" applications.

These rugged devices have both Thermal Shutdown, and Current Fold-back to prevent device failure under the "Worst" of operating conditions.

In applications requiring a low noise, regulated supply, place a 1000 pF capacitor between Bypass and ground.

The AME8806/8809/8842 is stable with an output capacitance of 2.2µF or greater.

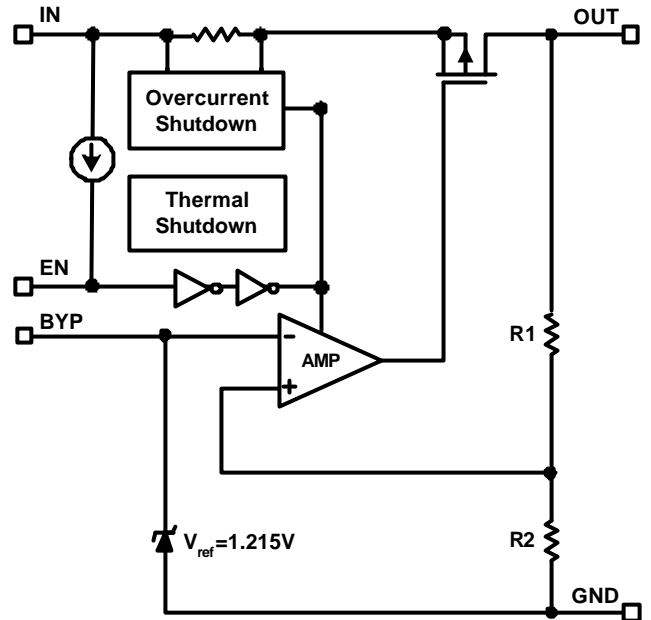
Features

- Very Low Dropout Voltage
- Guaranteed 600mA Output
- Accurate to within 1.5%
- 30µA Quiescent Current
- Over-Temperature Shutdown
- Current Limiting
- Short Circuit Current Fold-back
- Noise Reduction Bypass Capacitor
- Power-Saving Shutdown Mode
- Space-Saving SO-8 Package
- Factory Pre-set Output Voltages
- Low Temperature Coefficient
- All AME's Lead Free Products Meet RoHS Standards

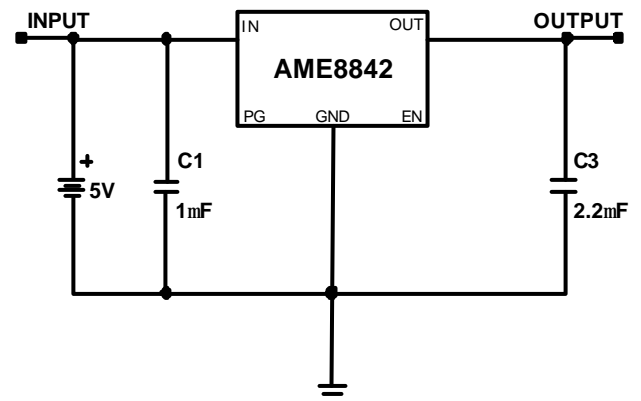
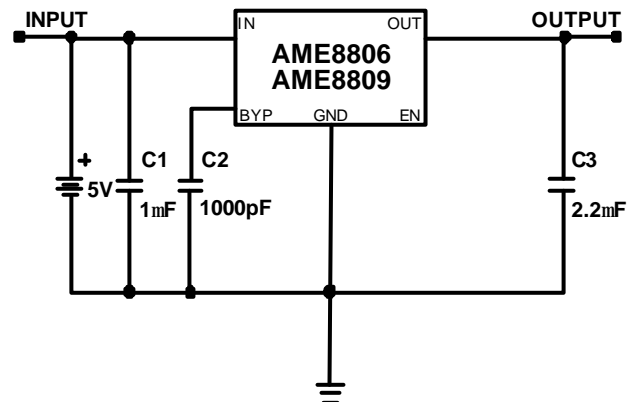
Applications

- Instrumentation
- Portable Electronics
- Wireless Devices
- Cordless Phones
- PC Peripherals
- Battery Powered Widgets
- Electronic Scales

Functional Block Diagram

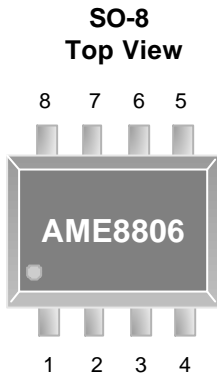


Typical Application





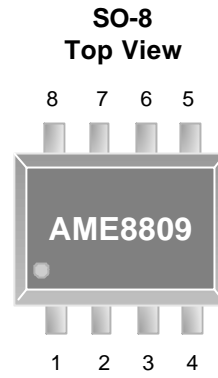
■ Pin Configuration



AME8806

- 1. IN
- 2. GND
- 3. GND
- 4. EN
- 5. BYP
- 6. GND
- 7. GND
- 8. OUT

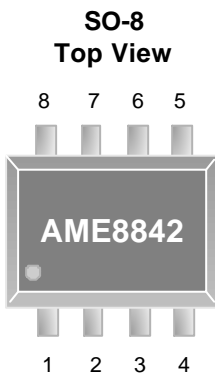
* Die Attach:
Conductive Epoxy



AME8809

- 1. EN
- 2. IN
- 3. OUT
- 4. BYP
- 5. GND
- 6. GND
- 7. GND
- 8. GND

* Die Attach:
Conductive Epoxy



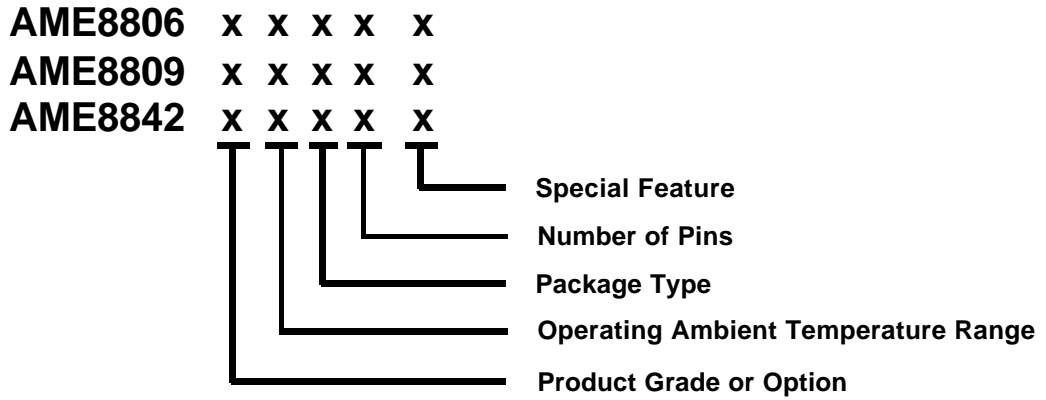
AME8842

- 1. PG
- 2. IN
- 3. OUT
- 4. EN
- 5. GND
- 6. GND
- 7. GND
- 8. GND

* Die Attach:
Non-Conductive Epoxy



■ Ordering Information



| Product Grade or Option | Operating Ambient Temperature Range | Package Type | Number of Pins | Special Feature |
|--|-------------------------------------|--------------|----------------|-----------------|
| A: 3.3V 1: 1.3V B: 3.0V 2: 2.0V C: 2.8V 3: 4.2V D: 2.5V 4: 4.0V E: 3.8V F: 3.6V G: 3.5V H: 2.7V I: 3.4V J: 2.85V K: 3.7V L: 1.5V M: 1.8V N: 2.9V O: 3.1V P: 4.1V Q: 4.75V R: 2.65V S: 5.0V U: 3.2V V: 3.15V W: 2.3V Y: 1.9V Z: 1.7V | E: -40°C to 85°C | H: SO-8 | A: 8 | Z: Lead Free |



■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------|----------------------|----------------|---------|-------------------------------------|
| AME8806AEHA | 8806 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8806AEHAZ | 8806 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8806BEHA | 8806 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8806BEHAZ | 8806 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8806CEHA | 8806 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8806CEHAZ | 8806 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8806DEHA | 8806 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |
| AME8806DEHAZ | 8806 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |
| AME8806EEHA | 8806 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |
| AME8806EEHAZ | 8806 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |
| AME8806FEHA | 8806 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |
| AME8806FEHAZ | 8806 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |

Note: yyww represents the date code

* A line on top of the first letter represents lead free plating such as $\overline{8806}$

Please consult AME sales office or authorized Rep./Distributor for output voltage and package type availability.

■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------|----------------------|----------------|---------|-------------------------------------|
| AME8806GEHA | 8806 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8806GEHAZ | 8806 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8806HEHA | 8806 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8806HEHAZ | 8806 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8806IEHA | 8806 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8806IEHAZ | 8806 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8806JEHA | 8806 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8806JEHAZ | 8806 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8806KEHA | 8806 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |
| AME8806KEHAZ | 8806 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |
| AME8806LEHA | 8806 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |
| AME8806LEHAZ | 8806 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |
| AME8806MEHA | 8806 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |
| AME8806MEHAZ | 8806 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |

■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------------|----------------------|-----------------------|----------------|--|
| AME8806NEHA | 8806 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8806NEHAZ | 8806 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8806OEHA | 8806 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |
| AME8806OEHAZ | 8806 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |
| AME8809AEHA | 8809 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8809AEHAZ | 8809 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8809BEHA | 8809 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8809BEHAZ | 8809 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8809CEHA | 8809 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8809CEHAZ | 8809 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8809DEHA | 8809 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |
| AME8809DEHAZ | 8809 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |
| AME8809EEHA | 8809 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |
| AME8809EEHAZ | 8809 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |

■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------|----------------------|----------------|---------|-------------------------------------|
| AME8809FEHA | 8809 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |
| AME8809FEHAZ | 8809 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |
| AME8809GEHA | 8809 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8809GEHAZ | 8809 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8809HEHA | 8809 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8809HEHAZ | 8809 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8809IEHA | 8809 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8809IEHAZ | 8809 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8809JEHA | 8809 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8809JEHAZ | 8809 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8809KEHA | 8809 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |
| AME8809KEHAZ | 8809 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |
| AME8809LEHA | 8809 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |
| AME8809LEHAZ | 8809 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |



■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------|----------------------|----------------|---------|-------------------------------------|
| AME8809MEHA | 8809 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |
| AME8809MEHAZ | 8809 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |
| AME8809NEHA | 8809 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8809NEHAZ | 8809 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8809OEHA | 8809 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |
| AME8809OEHAZ | 8809 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |
| AME8842AEHA | 8842 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8842AEHAZ | 8842 AEHA yyww | 3.3V | SO-8 | - 40°C to + 85°C |
| AME8842BEHA | 8842 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8842BEHAZ | 8842 BEHA yyww | 3.0V | SO-8 | - 40°C to + 85°C |
| AME8842CEHA | 8842 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8842CEHAZ | 8842 CEHA yyww | 2.8V | SO-8 | - 40°C to + 85°C |
| AME8842DEHA | 8842 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |
| AME8842DEHAZ | 8842 DEHA yyww | 2.5V | SO-8 | - 40°C to + 85°C |

■ Ordering Information (contd.)

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------|----------------------|----------------|---------|-------------------------------------|
| AME8842EEHA | 8842 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |
| AME8842EEHAZ | 8842 EEHA yyww | 3.8V | SO-8 | - 40°C to + 85°C |
| AME8842FEHA | 8842 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |
| AME8842FEHAZ | 8842 FEHA yyww | 3.6V | SO-8 | - 40°C to + 85°C |
| AME8842GEHA | 8842 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8842GEHAZ | 8842 GEHA yyww | 3.5V | SO-8 | - 40°C to + 85°C |
| AME8842HEHA | 8842 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8842HEHAZ | 8842 HEHA yyww | 2.7V | SO-8 | - 40°C to + 85°C |
| AME8842IEHA | 8842 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8842IEHAZ | 8842 IEHA yyww | 3.4V | SO-8 | - 40°C to + 85°C |
| AME8842JEHA | 8842 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8842JEHAZ | 8842 JEHA yyww | 2.85V | SO-8 | - 40°C to + 85°C |
| AME8842KEHA | 8842 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |
| AME8842KEHAZ | 8842 KEHA yyww | 3.7V | SO-8 | - 40°C to + 85°C |



■ **Ordering Information**

| Part Number | Marking* | Output Voltage | Package | Operating Ambient Temperature Range |
|--------------------|----------------------|-----------------------|----------------|--|
| AME8842LEHA | 8842 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |
| AME8842LEHAZ | 8842 LEHA yyww | 1.5V | SO-8 | - 40°C to + 85°C |
| AME8842MEHA | 8842 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |
| AME8842MEHAZ | 8842 MEHA yyww | 1.8V | SO-8 | - 40°C to + 85°C |
| AME8842NEHA | 8842 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8842NEHAZ | 8842 NEHA yyww | 2.9V | SO-8 | - 40°C to + 85°C |
| AME8842OEHA | 8842 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |
| AME8842OEHAZ | 8842 OEHA yyww | 3.1V | SO-8 | - 40°C to + 85°C |

■ Absolute Maximum Ratings

| Parameter | Maximum | Unit |
|-----------------------|-----------------------------|------|
| Input Voltage | 8 | V |
| Output Current | $P_D / (V_{IN} - V_O)$ | A |
| Input, Output Voltage | GND - 0.3 to $V_{IN} + 0.3$ | V |
| ESD Classification | B* | |

Caution: Stress above the listed absolute maximum rating may cause permanent damage to the device.

*HBM B: 2000V~3999V

■ Recommended Operating Conditions

| Parameter | Symbol | Rating | Unit |
|----------------------------|--------|---------------|------|
| Ambient Temperature Range | T_A | - 40 to + 85 | °C |
| Junction Temperature Range | T_J | - 40 to + 125 | °C |

■ Thermal Information

| Parameter | Package | Die Attach | Symbol | Maximum | Unit |
|---|---------|----------------------|---------------|---------|--------|
| Thermal Resistance (Junction to Case) | *SO-8 | Conductive Epoxy | θ_{JA} | 60 | °C / W |
| | | Non-Conductive Epoxy | | N/A | |
| Thermal Resistance (Junction to Ambient) | SO-8 | Conductive Epoxy | θ_{JC} | 150 | °C / W |
| | | Non-Conductive Epoxy | | N/A | |
| Internal Power Dissipation | SO-8 | Conductive Epoxy | P_D | 810 | mW |
| | | Non-Conductive Epoxy | | N/A | |
| Maximum Junction Temperature | | | | 150 | °C |
| Solder Iron(10 Sec)** | | | | 350 | °C |

* Measure θ_{JC} on center of molding compound if IC has no tab.

** MIL-STD-202G 210F

■ Electrical Specifications

TA = 25°C unless otherwise noted

| Parameter | Symbol | Test Condition | Min | Typ | Max | Units | |
|-------------------------------|---------------|--|----------------------------------|-----------|----------|------------------|---|
| Input Voltage | V_{IN} | | Note 1 | | 7 | V | |
| Output Voltage Accuracy | V_O | $I_O=1mA$ | -1.5 | | 1.5 | % | |
| Dropout Voltage | $V_{DROPOUT}$ | $I_O=600mA$ $V_O=V_{O(NOM)} - 2.0%$ | $1.3V \leq V_{O(NOM)} \leq 1.4V$ | See chart | 1900 | mV | |
| | | | $1.4V < V_{O(NOM)} \leq 2.0V$ | | 1400 | | |
| | | | $2.0V < V_{O(NOM)} \leq 2.8V$ | | 800 | | |
| | | | $2.8V < V_{O(NOM)}$ | | 600 | | |
| Output Current | I_O | $V_O > 1.2V$ | 600 | | | mA | |
| Current Limit | I_{LIM} | $V_O > 1.2V$ | 600 | 800 | | mA | |
| Short Circuit Current | I_{SC} | $V_O < 0.8V$ | | 300 | 600 | mA | |
| Quiescent Current | I_Q | $I_O=0mA$ | | 30 | 50 | μA | |
| Ground Pin Current | I_{GND} | $I_O=1mA$ to 600mA | | 35 | | μA | |
| Line Regulation | REG_{LINE} | $I_O=1mA$ $V_{IN}=V_O+1$ to V_O+2 | $1.3V \leq V_O \leq 1.4V$ | -0.2 | | 0.2 | % |
| | | | $1.4V < V_O \leq 2.0V$ | -0.15 | | 0.15 | |
| | | | $2.0V \leq V_O < 4.0V$ | -0.1 | 0.02 | 0.1 | |
| | | | $V_O \geq 4.0V$ | -0.4 | 0.2 | 0.4 | |
| Load Regulation | REG_{LOAD} | $I_O=1mA$ to 600mA | | 0.2 | 1 | % | |
| Over Temperature Shutdown | OTS | | | 150 | | $^{\circ}C$ | |
| Over Temperature Hysteresis | OTH | | | 30 | | $^{\circ}C$ | |
| V_O Temperature Coefficient | TC | | | 30 | | ppm/ $^{\circ}C$ | |
| Power Supply Rejection | PSRR | $I_O=100mA$ $C_O=2.2\mu F$ ceramic $C_{BYP}=0.01\mu F$ | $f=1kHz$ | | 75 | dB | |
| | | | $f=10kHz$ | | 55 | | |
| | | | $f=100kHz$ | | 30 | | |
| Output Voltage Noise | eN | $f=10Hz$ to 100kHz $I_O=10mA$, $C_{BYP}=0.01\mu F$ | | | 30 | μV_{rms} | |
| EN Input Threshold | V_{EH} | $V_{IN}=2.7V$ to 7V | 2.0 | | V_{in} | V | |
| | V_{EL} | $V_{IN}=2.7V$ to 7V | 0 | | 0.4 | V | |
| EN Input Bias Current | I_{EH} | $V_{EN}=V_{IN}$, $V_{IN}=2.7V$ to 7V | | | 0.1 | μA | |
| | I_{EL} | $V_{EN}=0V$, $V_{IN}=2.7V$ to 7V | | | 0.5 | μA | |
| Shutdown Supply Current | I_{SD} | $V_{IN}=5V$, $V_O=0V$, $V_{EN} < V_{EL}$ | | 0.5 | 1 | μA | |
| PG Leakage Current | I_{LC} | $V_{PG}=7V$ | | | 1 | μA | |
| PG Voltage Rating | V_{PG} | V_O in regulation | | | 7 | V | |
| PG Voltage Low | V_{OL} | $I_{SINK}=0.4mA$ | | | 0.4 | V | |

 Note1: $V_{IN(min)} = V_{OUT} + V_{DROPOUT}$

Note2: To prevent the Short Circuit Current protection feature from being prematurely activated, the input voltage must be applied before a current source load is applied.



■ Detailed Description

The AME8806/8809/8842 family of CMOS regulators contain a PMOS pass transistor, voltage reference, error amplifier, over-current protection, and thermal shutdown.

The P-channel pass transistor receives data from the error amplifier, over-current shutdown, and thermal protection circuits. During normal operation, the error amplifier compares the output voltage to a precision reference. Over-current and Thermal shutdown circuits become active when the junction temperature exceeds 150°C, or the current exceeds 600mA. During thermal shutdown, the output voltage remains low. Normal operation is restored when the junction temperature drops below 120°C.

The AME8806/8809/8842 switches from voltage mode to current mode when the load exceeds the rated output current. This prevents over-stress. The AME8806/8809/8842 also incorporates current foldback to reduce power dissipation when the output is short circuited. This feature becomes active when the output drops below 0.8 volts, and reduces the current flow by 65%. Full current is restored when the voltage exceeds 0.8 volts.

■ External Capacitors

The AME8806/8809/8842 is stable with an output capacitor to ground of 2.2 μ F or greater. Ceramic capacitors have the lowest ESR, and will offer the best AC performance. Conversely, Aluminum Electrolytic capacitors exhibit the highest ESR, resulting in the poorest AC response. Unfortunately, large value ceramic capacitors are comparatively expensive. One option is to parallel a 0.1 μ F ceramic capacitor with a 10 μ F Aluminum Electrolytic. The benefit is low ESR, high capacitance, and low overall cost.

A second capacitor is recommended between the input and ground to stabilize V_{in} . The input capacitor should be at least 0.1 μ F to have a beneficial effect.

A third capacitor can be connected between the BY-PASS pin and GND. This capacitor can be a low cost Polyester Film variety between the value of 0.001 ~ 0.01 μ F. A larger capacitor improves the AC ripple rejection, but also makes the output come up slowly. This "Soft" turn-on is desirable in some applications to limit turn-on surges.

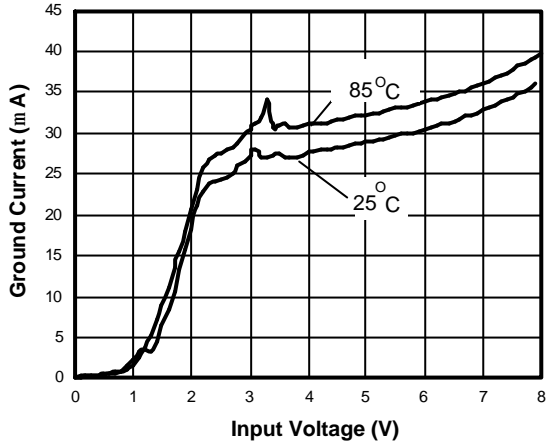
All capacitors should be placed in close proximity to the pins. A "Quiet" ground termination is desirable. This can be achieved with a "Star" connection.

■ Enable

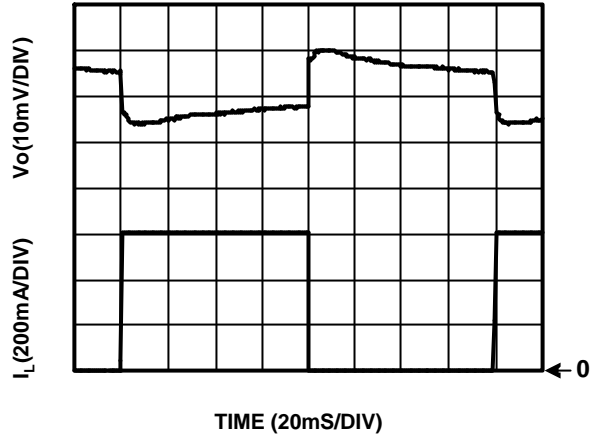
The Enable pin normally floats high. When actively, pulled low, the PMOS pass transistor shuts off, and all internal circuits are powered down. In this state, the quiescent current is less than 1 μ A. This pin behaves much like an electronic switch.



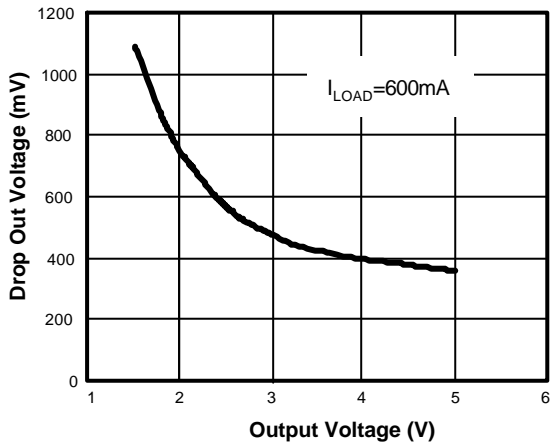
Ground Current vs. Input Voltage



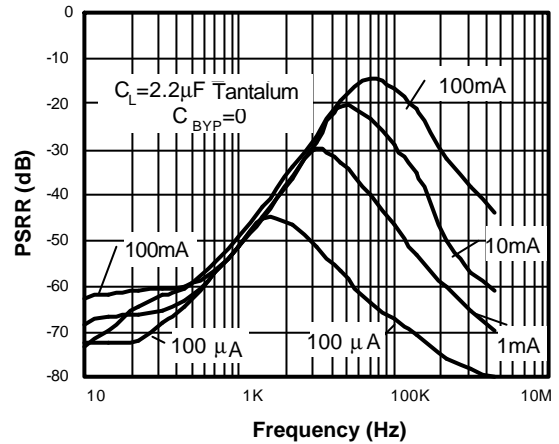
Load Step (1mA-600mA)



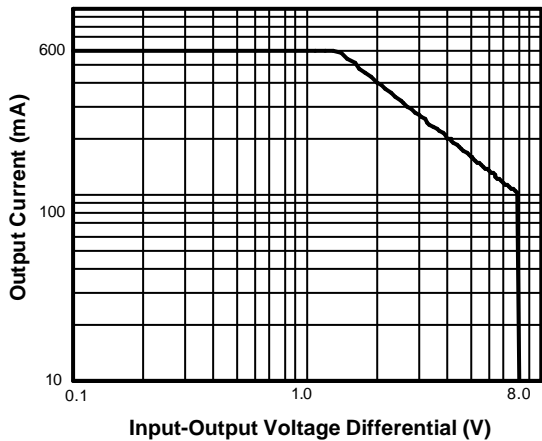
Drop Out Voltage vs. Output Voltage



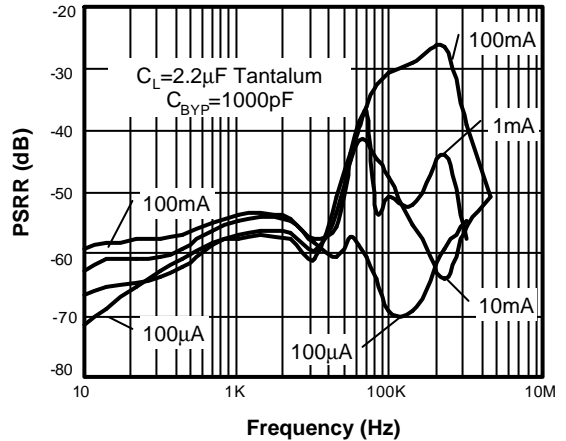
Power Supply Rejection Ratio



Safe Operating Area

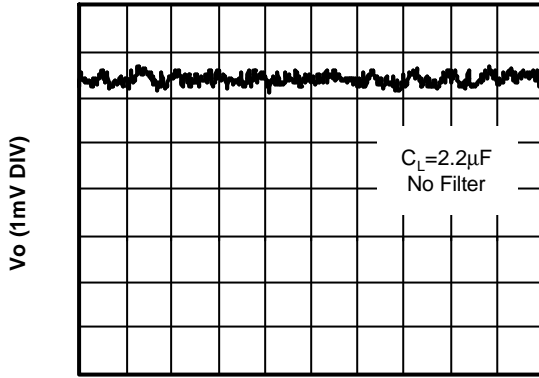


Power Supply Rejection Ratio



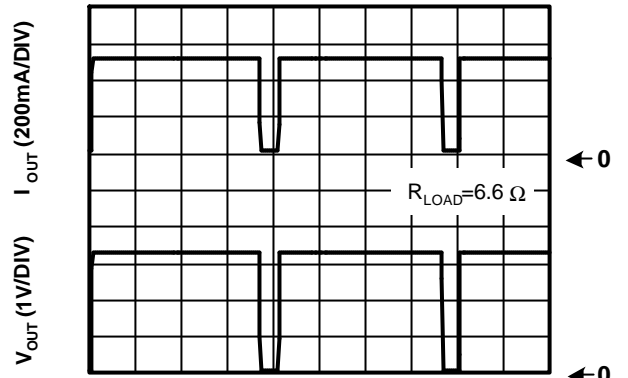


Noise Measurement



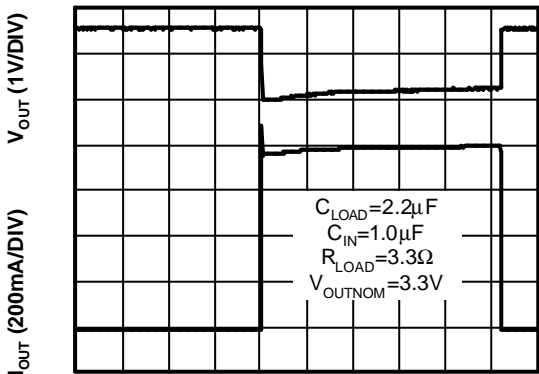
TIME (20ms/DIV)

Overtemperature Shutdown



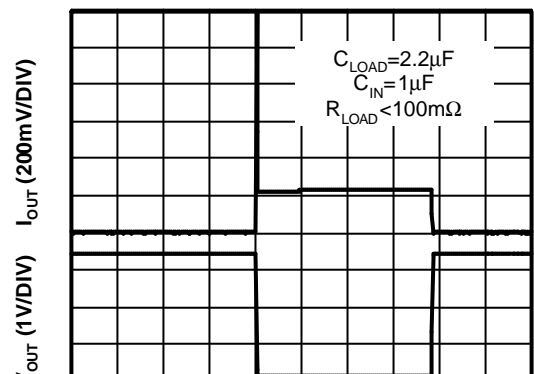
TIME (0.5Sec/DIV)

Current Limit Response



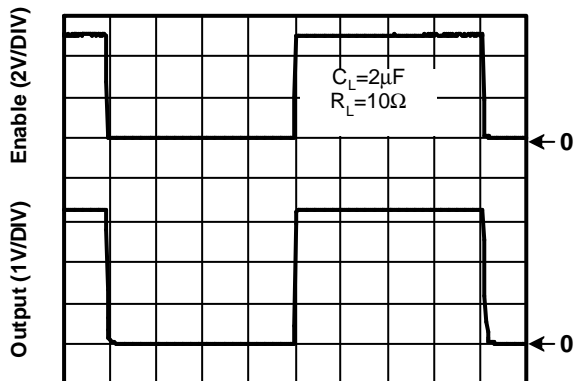
TIME (2mS/DIV)

Short Circuit Response



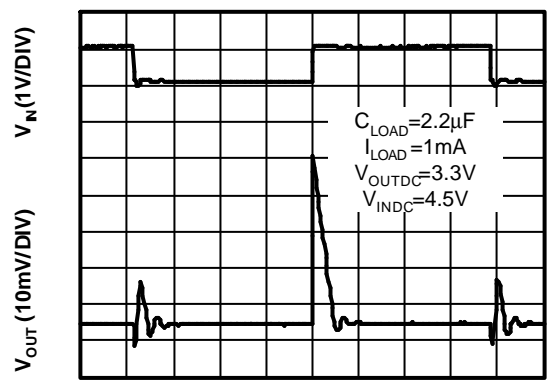
TIME (2mS/DIV)

Chip Enable Transient Response

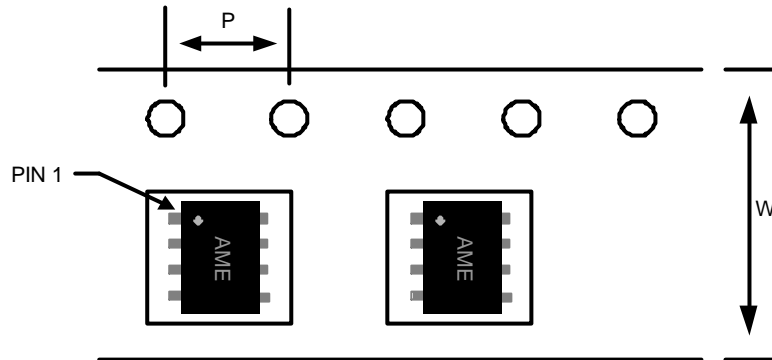


TIME (1mS/DIV)

Line Transient Response



TIME (200mS/DIV)

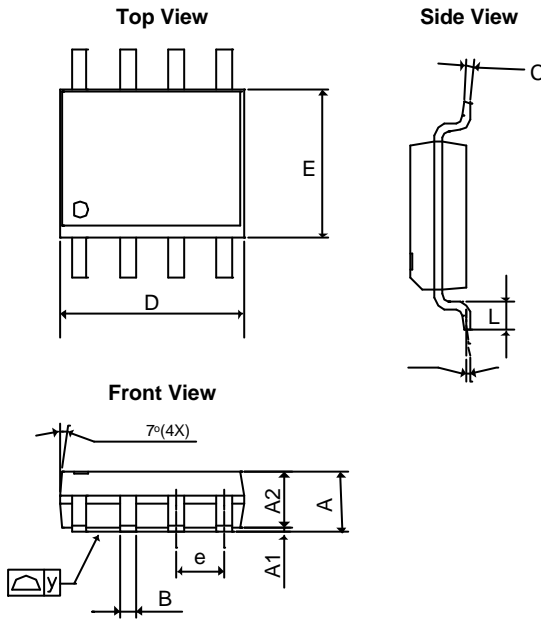
■ Tape and Reel Dimension
SO-8

Carrier Tape, Number of Components Per Reel and Reel Size

| Package | Carrier Width (W) | Pitch (P) | Part Per Full Reel | Reel Size |
|---------|-------------------|------------|--------------------|-----------|
| SO-8 | 12.0±0.1 mm | 4.0±0.1 mm | 2500pcs | 330±1 mm |



■ Package Dimension

SO-8



| SYMBOLS | MILLIMETERS | | INCHES | |
|----------------|-------------|------|-----------|---------|
| | MIN | MAX | MIN | MAX |
| A | 1.35 | 1.75 | 0.05315 | 0.0689 |
| A ₁ | 0.10 | 0.25 | 0.00394 | 0.00984 |
| A ₂ | 1.473 REF | | 0.058 REF | |
| B | 0.33 | 0.51 | 0.01299 | 0.02008 |
| C | 0.19 | 0.25 | 0.00748 | 0.00984 |
| D | 4.80 | 5.00 | 0.18898 | 0.19685 |
| E | 3.80 | 4.00 | 0.14961 | 0.15748 |
| e | 1.27 BSC | | 0.050 BSC | |
| L | 0.40 | 1.27 | 0.01575 | 0.05 |
| y | - | 0.10 | - | 0.004 |
| q | 0° | 8° | 0° | 8° |



www.ame.com.tw
E-Mail: sales@ame.com.tw

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Corporate Headquarter
AME, Inc.

2F, 302 Rui-Guang Road, Nei-Hu District
Taipei 114, Taiwan.
Tel : 886 2 2627-8687
Fax: 886 2 2659-2989

U.S.A. (Subsidiary)
Analog Microelectronics, Inc.

3100 De La Cruz Blvd., Suite 201
Santa Clara, CA. 95054-2046
Tel: (408) 988-2388
Fax: (408) 988-2489