

1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**General Description**

The AP2115 is CMOS process low dropout linear regulator with enable function, the regulator delivers a guaranteed 1A (min.) continuous load current.

The AP2115 features low power consumption.

The AP2115 is available in 1.2V, 1.8V, 2.5V and 3.3V regulator output, and available in excellent output accuracy $\pm 1.5\%$, it is also available in an excellent load regulation and line regulation performance.

The AP2115 is available in standard packages of SOIC-8 and SOT-89-5.

Features

- Output Voltage Accuracy: $\pm 1.5\%$
- Output Current: 1A (Min.)
- Fold-back Short Current Protection: 50mA
- Low Dropout Voltage (3.3V): 450mV (Typ.) @ $I_{OUT}=1A$
- Stable with 4.7 μ F Flexible Cap: Ceramic, Tantalum and Aluminum Electrolytic
- Excellent Line Regulation: 0.02%/V (Typ.), 0.1%/V (Max.) @ $I_{OUT}=30mA$
- Excellent Load Regulation: 0.2%/A @ $I_{OUT}=1mA$ to 1A
- Low Quiescent Current: 60 μ A (1.2V/1.8V/2.5V)
- Low Output Noise: 30 μ V_{RMS}
- PSRR: 68dB @ Freq=1kHz (1.2V/1.8V)
- OTSD Protection
- Operation Temperature Range: -40°C to 85°C
- ESD: MM 400V, HBM 4000V

Applications

- LCD Monitor
- LCD TV
- STB

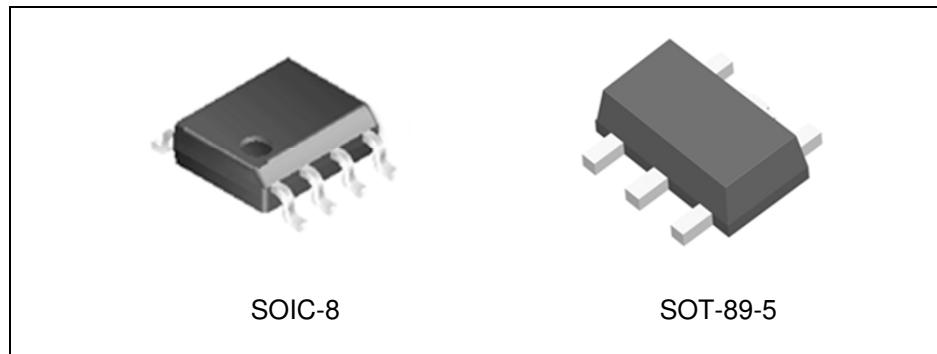


Figure 1. Package Types of AP2115

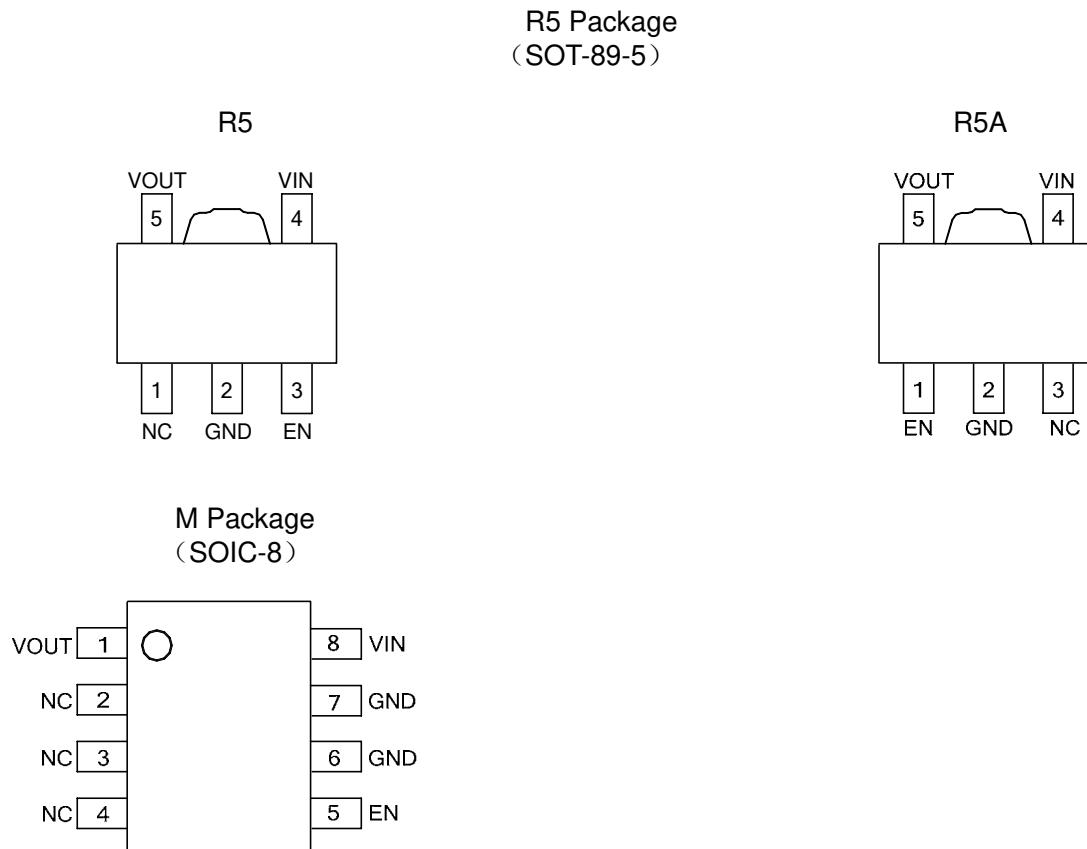
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**Pin Configuration**

Figure 2. Pin Configuration of AP2115 (Top View)

Pin Descriptions

| Pin No. | | Name | Function |
|----------|---------|-------|--|
| SOT-89-5 | SOIC-8 | | |
| 1 | 2, 3, 4 | NC/EN | No connection/Chip Enable |
| 2 | 6, 7 | GND | GND |
| 3 | 5 | EN/NC | Chip Enable, H – normal work, L – shutdown output/ No Connection |
| 4 | 8 | VIN | Input Voltage |
| 5 | 1 | VOUT | Output Voltage |

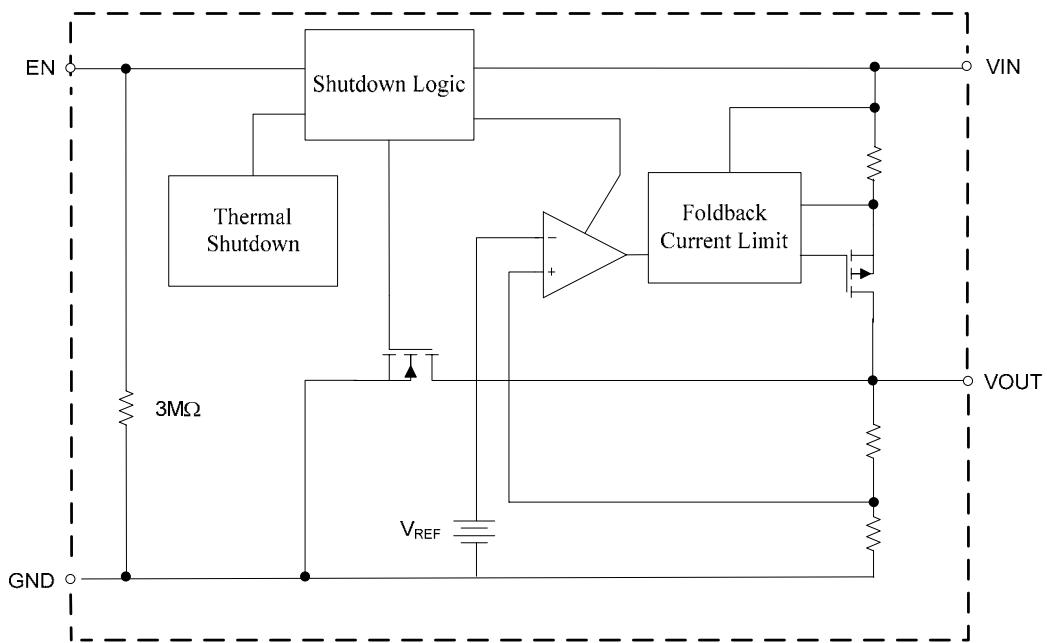
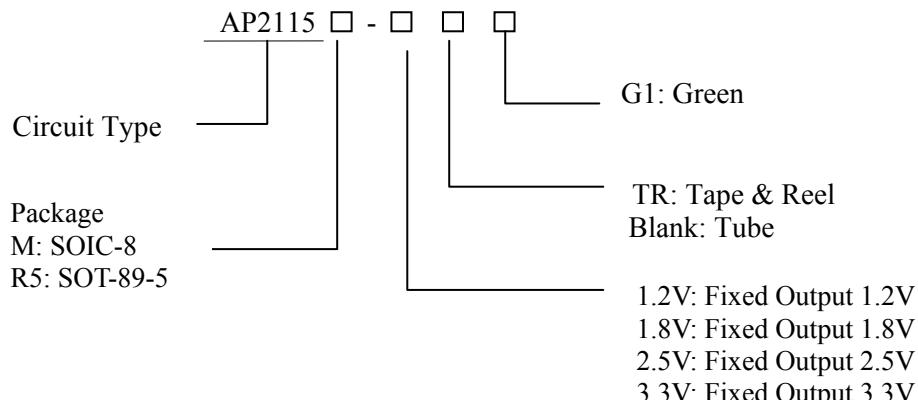
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**Functional Block Diagram**

Figure 3. Functional Block Diagram of AP2115

1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**Ordering Information**

| Package | Temperature Range | Condition | Part Number | Marking ID | Packing Type |
|----------|-------------------|------------|-------------------|-------------|--------------|
| SOIC-8 | -40 to 85°C | 1.2V | AP2115M-1.2G1 | 2115M-1.2G1 | Tube |
| | | | AP2115M-1.2TRG1 | 2115M-1.2G1 | Tape & Reel |
| | | 1.8V | AP2115M-1.8G1 | 2115M-1.8G1 | Tube |
| | | | AP2115M-1.8TRG1 | 2115M-1.8G1 | Tape & Reel |
| | | 2.5V | AP2115M-2.5G1 | 2115M-2.5G1 | Tube |
| | | | AP2115M-2.5TRG1 | 2115M-2.5G1 | Tape & Reel |
| | | 3.3V | AP2115M-3.3G1 | 2115M-3.3G1 | Tube |
| | | | AP2115M-3.3TRG1 | 2115M-3.3G1 | Tape & Reel |
| SOT-89-5 | -40 to 85°C | 1.2V (R5) | AP2115R5-1.2TRG1 | G22G | Tape & Reel |
| | | 1.8V (R5) | AP2115R5-1.8TRG1 | G22H | Tape & Reel |
| | | 2.5V (R5) | AP2115R5-2.5TRG1 | G37H | Tape & Reel |
| | | 3.3V (R5) | AP2115R5-3.3TRG1 | G41H | Tape & Reel |
| SOT-89-5 | -40 to 85°C | 1.2V (R5A) | AP2115R5A-1.2TRG1 | G27D | Tape & Reel |
| | | 1.8V (R5A) | AP2115R5A-1.8TRG1 | G27G | Tape & Reel |
| | | 2.5V (R5A) | AP2115R5A-2.5TRG1 | G41F | Tape & Reel |
| | | 3.3V (R5A) | AP2115R5A-3.3TRG1 | G41G | Tape & Reel |

BCD Semiconductor's Pb-free products, as designated with "G1" suffix in the part number, are RoHS compliant and green.

**1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115****Absolute Maximum Ratings (Note 1)**

| Parameter | Symbol | Value | Unit |
|--|-------------------|------------|------|
| Power Supply Voltage | V _{CC} | 6.5 | V |
| Operating Junction Temperature Range | T _J | 150 | °C |
| Storage temperature Range | T _{STG} | -65 to 150 | °C |
| Lead Temperature (Soldering, 10 Seconds) | T _{LEAD} | 260 | °C |
| ESD (Machine Model) | | 400 | V |
| ESD (Human Body Model) | | 4000 | 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 |
|-------------------------------------|-----------------|-----|-----|------|
| Supply Voltage | V _{IN} | 2.5 | 6.0 | V |
| Ambient Operation Temperature Range | T _A | -40 | 85 | °C |



1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115

Electrical Characteristics

AP2115-1.2 Electrical Characteristics (Note 2)

$V_{IN}=2.5V$, $C_{IN}=4.7\mu F$ (Ceramic), $C_{OUT}=4.7\mu F$ (Ceramic), Typical $T_A=25^\circ C$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq 85^\circ C$ ranges, unless otherwise specified (Note 3).

| Parameter | Symbol | Test Conditions | | Min | Typ | Max | Unit |
|--|---|--|-------------------|-------------------------|----------|--------------------------|---------------|
| Output Voltage | V_{OUT} | $V_{IN}=2.5V$, $1mA \leq I_{OUT} \leq 30mA$ | | $V_{OUT} \times 98.5\%$ | 1.2 | $V_{OUT} \times 101.5\%$ | V |
| Input Voltage | V_{IN} | | | | | 6 | V |
| Maximum Output Current | $I_{OUT(MAX)}$ | $V_{IN}=2.5V$, $V_{OUT}=1.182V$ to $1.218V$ | | 1 | | | A |
| Load Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta I_{OUT}}$ | $V_{IN}=2.5V$, $1mA \leq I_{OUT} \leq 1A$ | | | 0.2 | 1 | %/A |
| Line Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta V_{IN}}$ | $2.5V \leq V_{IN} \leq 6V$, $I_{OUT}=30mA$ | | -0.1 | 0.02 | 0.1 | %/V |
| Dropout Voltage | V_{DROP} | $I_{OUT}=1.0A$ | | | 1200 | 1300 | mV |
| Quiescent Current | I_Q | $V_{IN}=2.5V$, $I_{OUT}=0mA$ | | | 60 | 75 | μA |
| Power Supply Rejection Ratio | PSRR | Ripple 1Vp-p $V_{IN}=2.5V$, $I_{OUT}=100mA$ | f=100Hz f=1KHz | | 68 | | dB |
| Output Voltage Temperature Coefficient | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta T}$ | $I_{OUT}=30mA$, $T_A = -40^\circ C$ to $85^\circ C$ | | | ± 30 | | |
| Short Current Limit | I_{SHORT} | $V_{OUT}=0V$ | | | 50 | | mA |
| RMS Output Noise | V_{NOISE} | $10Hz \leq f \leq 100kHz$ (No Load) | | | 30 | | μV_{RMS} |
| V_{EN} High Voltage | V_{IH} | Enable logic high, regulator on | | 1.5 | | | V |
| V_{EN} Low Voltage | V_{IL} | Enable logic low, regulator off | | | | 0.4 | |
| Standby Current | I_{STD} | $V_{IN}=3.5V$, V_{EN} in OFF mode | | | 0.01 | 1.0 | μA |
| Start-up Time | t_S | No Load | | | 20 | | μs |
| EN Pull Down Resistor | R_{PD} | | | | 3.0 | | $M\Omega$ |
| V_{OUT} Discharge Resistor | R_{DCHG} | Set EN pin at Low | | | 60 | | Ω |
| Thermal Shutdown Temperature | T_{OTSD} | | | | 160 | | $^\circ C$ |
| Thermal Shutdown Hysteresis | T_{HYOTSD} | | | | 25 | | |
| Thermal Resistance | θ_{JC} | SOIC-8 | | | 74.6 | | $^\circ C/W$ |
| | | SOT-89-5 | | | 47 | | |

Note 2: 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.

Note 3: Production testing at $T_A=25^\circ C$. Over temperature specifications guaranteed by design only.



1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115

Electrical Characteristics (Continued)

AP2115-1.8 Electrical Characteristics (Note 2)

$V_{IN}=2.8V$, $C_{IN}=4.7\mu F$ (Ceramic), $C_{OUT}=4.7\mu F$ (Ceramic), Typical $T_A=25^\circ C$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq 85^\circ C$ ranges, unless otherwise specified (Note 3).

| Parameter | Symbol | Test Conditions | | Min | Typ | Max | Unit |
|--|---|--|-------------------|---------------------------|------------|----------------------------|-----------------|
| Output Voltage | V_{OUT} | $V_{IN}=2.8V$, $1mA \leq I_{OUT} \leq 30mA$ | | 98.5% $\times V_{OUT}$ | 1.8 | 101.5% $\times V_{OUT}$ | V |
| Maximum Output Current | $I_{OUT(MAX)}$ | $V_{IN}=2.8V$, $V_{OUT}=1.773V$ to $1.827V$ | | 1 | | | A |
| Load Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta I_{OUT}}$ | $V_{IN}=2.8V$, $1mA \leq I_{OUT} \leq 1A$ | | | 0.2 | 1 | %/A |
| Line Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta V_{IN}}$ | $2.8V \leq V_{IN} \leq 6V$, $I_{OUT}=30mA$ | | -0.1 | 0.02 | 0.1 | %/V |
| Dropout Voltage | V_{DROP} | $I_{OUT}=1.0A$ | | | 500 | 750 | mV |
| Quiescent Current | I_Q | $V_{IN}=2.8V$, $I_{OUT}=0mA$ | | | 60 | 75 | μA |
| Power Supply Rejection Ratio | PSRR | Ripple 1Vp-p $V_{IN}=2.8V$, $I_{OUT}=100mA$ | f=100Hz f=1KHz | | 68 | | dB |
| Output Voltage Temperature Coefficient | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta T}$ | $I_{OUT}=30mA$, $T_A = -40^\circ C$ to $85^\circ C$ | | | ± 30 | | ppm/ $^\circ C$ |
| Short Current Limit | I_{SHORT} | $V_{OUT}=0V$ | | | 50 | | mA |
| RMS Output Noise | V_{NOISE} | $10Hz \leq f \leq 100kHz$ (No load) | | | 30 | | μV_{RMS} |
| V_{EN} High Voltage | V_{IH} | Enable logic high, regulator on | | 1.5 | | | V |
| V_{EN} Low Voltage | V_{IL} | Enable logic low, regulator off | | | | 0.4 | |
| Standby Current | I_{STD} | $V_{IN}=3.5V$, V_{EN} in OFF mode | | | 0.01 | 1.0 | μA |
| Start-up Time | t_S | No Load | | | 20 | | μs |
| EN Pull Down Resistor | R_{PD} | | | | 3.0 | | $M\Omega$ |
| V_{OUT} Discharge Resistor | R_{DCHG} | Set EN pin at Low | | | 60 | | Ω |
| Thermal Shutdown Temperature | T_{OTSD} | | | | 160 | | $^\circ C$ |
| Thermal Shutdown Hysteresis | T_{HYOTSD} | | | | 25 | | |
| Thermal Resistance | θ_{JC} | SOIC-8 SOT-89-5 | | | 74.6 47 | | $^\circ C/W$ |

Note 2: 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.

Note 3: Production testing at $T_A=25^\circ C$. Over temperature specifications guaranteed by design only.



1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115

Electrical Characteristics (Continued)

AP2115-2.5 Electrical Characteristics (Note 2)

$V_{IN}=3.5V$, $C_{IN}=4.7\mu F$ (Ceramic), $C_{OUT}=4.7\mu F$ (Ceramic), Typical $T_A=25^\circ C$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq 85^\circ C$ ranges, unless otherwise specified (Note 3).

| Parameter | Symbol | Test Conditions | | Min | Typ | Max | Unit |
|--|---|--|---------|-------------------------|----------|--------------------------|-----------------|
| Output Voltage | V_{OUT} | $V_{IN}=3.5V$, $1mA \leq I_{OUT} \leq 30mA$ | | $98.5\% \times V_{OUT}$ | 2.5 | $101.5\% \times V_{OUT}$ | V |
| Maximum Output Current | $I_{OUT(MAX)}$ | $V_{IN}=3.5V$, $V_{OUT}=2.463V$ to $2.537V$ | | 1 | | | A |
| Load Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta I_{OUT}}$ | $V_{OUT}=2.5V$, $V_{IN}=V_{OUT}+1V$ $1mA \leq I_{OUT} \leq 1A$ | | | 0.2 | 1 | %/A |
| Line Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta V_{IN}}$ | $3.5V \leq V_{IN} \leq 6V$, $I_{OUT}=30mA$ | | -0.1 | 0.02 | 0.1 | %/V |
| Dropout Voltage | V_{DROP} | $I_{OUT}=1A$ | | | 450 | 750 | mV |
| Quiescent Current | I_Q | $V_{IN}=3.5V$, $I_{OUT}=0mA$ | | | 60 | 80 | μA |
| Standby Current | I_{STD} | $V_{IN}=3.5V$, V_{EN} in OFF mode | | | 0.01 | 1.0 | μA |
| Power Supply Rejection Ratio | PSRR | Ripple 1Vp-p $V_{IN}=3.5V$, $I_{OUT}=100mA$ | f=100Hz | | 65 | | dB |
| Output Voltage Temperature Coefficient | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta T}$ | $I_{OUT}=30mA$ | | | ± 30 | | ppm/ $^\circ C$ |
| Short Current Limit | I_{SHORT} | $V_{OUT}=0V$ | | | 50 | | mA |
| RMS Output Noise | V_{NOISE} | $10Hz \leq f \leq 100kHz$ | | | 30 | | μV_{RMS} |
| V_{EN} High Voltage | V_{IH} | Enable logic high, regulator on | | 1.5 | | | V |
| V_{EN} Low Voltage | V_{IL} | Enable logic low, regulator off | | | | 0.4 | |
| Start-up Time | t_S | No Load | | | 20 | | μs |
| EN Pull Down Resistor | R_{PD} | | | | 3.0 | | $M\Omega$ |
| V_{OUT} Discharge Resistor | R_{DCHG} | Set EN pin at Low | | | 60 | | Ω |
| Thermal Shutdown Temperature | T_{OTSD} | | | | 160 | | $^\circ C$ |
| Thermal Shutdown Hysteresis | T_{HYOTSD} | | | | 25 | | |
| Thermal Resistance | θ_{JC} | SOIC-8 | | | 74.6 | | $^\circ C/W$ |
| | | SOT-89-5 | | | 47 | | |

Note 2: 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.

Note 3: Production testing at $T_A=25^\circ C$. Over temperature specifications guaranteed by design only.



1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115

Electrical Characteristics (Continued)

AP2115-3.3 Electrical Characteristics (Note 2)

$V_{IN}=4.3V$, $C_{IN}=4.7\mu F$ (Ceramic), $C_{OUT}=4.7\mu F$ (Ceramic), Typical $T_A=25^\circ C$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq 85^\circ C$ ranges, unless otherwise specified (Note 3).

| Parameter | Symbol | Test Conditions | | Min | Typ | Max | Unit |
|--|---|--|-------------------|---------------------------|----------|----------------------------|-----------------|
| Output Voltage | V_{OUT} | $V_{IN}=4.3V$, $1mA \leq I_{OUT} \leq 30mA$ | | 98.5% $\times V_{OUT}$ | 3.3 | 101.5% $\times V_{OUT}$ | V |
| Maximum Output Current | $I_{OUT(MAX)}$ | $V_{IN}=4.3V$, $V_{OUT}=3.25V$ to $3.35V$ | | 1 | | | A |
| Load Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta I_{OUT}}$ | $V_{IN}=4.3V$, $1mA \leq I_{OUT} \leq 1A$ | | | 0.2 | 1 | %/A |
| Line Regulation | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta V_{IN}}$ | $4.3V \leq V_{IN} \leq 6V$, $I_{OUT}=30mA$ | | -0.1 | 0.02 | 0.1 | %/V |
| Dropout Voltage | V_{DROP} | $I_{OUT}=1A$ | | | 450 | 750 | mV |
| Quiescent Current | I_Q | $V_{IN}=4.3V$, $I_{OUT}=0mA$ | | | 65 | 90 | μA |
| Power Supply Rejection Ratio | PSRR | Ripple 1Vp-p $V_{IN}=4.3V$, $I_{OUT}=100mA$ | f=100Hz f=1KHz | | 65 | | dB |
| Output Voltage Temperature Coefficient | $\frac{\Delta V_{OUT}/V_{OUT}}{\Delta T}$ | $I_{OUT}=30mA$ | | | ± 30 | | ppm/ $^\circ C$ |
| Short Current Limit | I_{SHORT} | $V_{OUT}=0V$ | | | 50 | | mA |
| RMS Output Noise | V_{NOISE} | $10Hz \leq f \leq 100kHz$ (No load) | | | 30 | | μV_{RMS} |
| V_{EN} High Voltage | V_{IH} | Enable logic high, regulator on | | 1.5 | | | V |
| V_{EN} Low Voltage | V_{IL} | Enable logic low, regulator off | | | | 0.4 | |
| Standby Current | I_{STD} | $V_{IN}=3.5V$, V_{EN} in OFF mode | | | 0.01 | 1.0 | μA |
| Start-up Time | t_S | No Load | | | 20 | | μs |
| EN Pull Down Resistor | R_{PD} | | | | 3.0 | | $M\Omega$ |
| V_{OUT} Discharge Resistor | R_{DCHG} | Set EN pin at Low | | | 60 | | Ω |
| Thermal Shutdown Temperature | T_{OTSD} | | | | 160 | | $^\circ C$ |
| Thermal Shutdown Hysteresis | T_{HYOTSD} | | | | 25 | | |
| Thermal Resistance | θ_{JC} | SOIC-8 | | | 74.6 | | $^\circ C/W$ |
| | | SOT-89-5 | | | 47 | | |

Note 2: 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.

Note 3: Production testing at $T_A=25^\circ C$. Over temperature specifications guaranteed by design only.

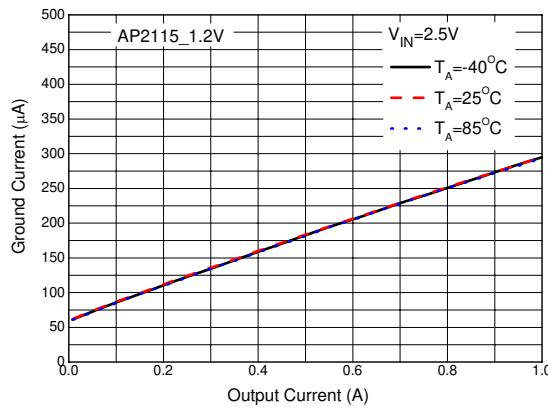
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Typical Performance Characteristics


Figure 4. Ground Current vs. Output Current

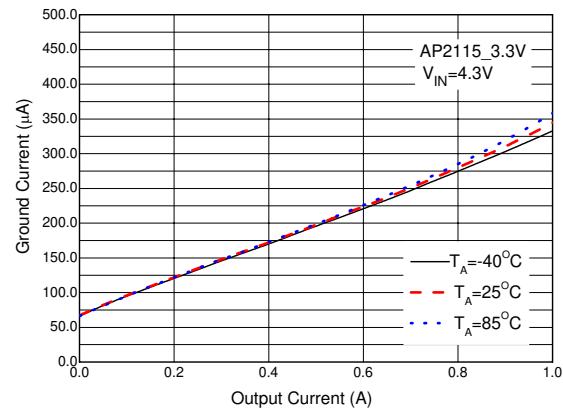


Figure 5. Ground Current vs. Output Current

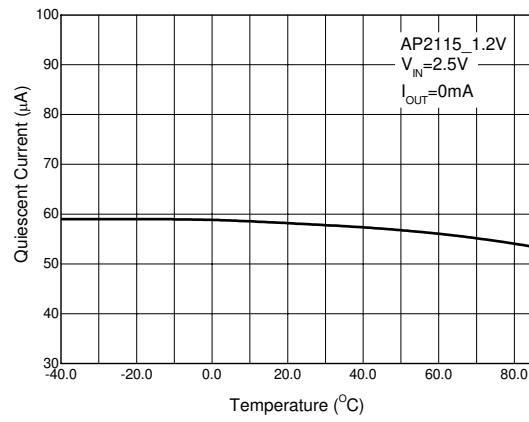


Figure 6. Quiescent Current vs. Temperature

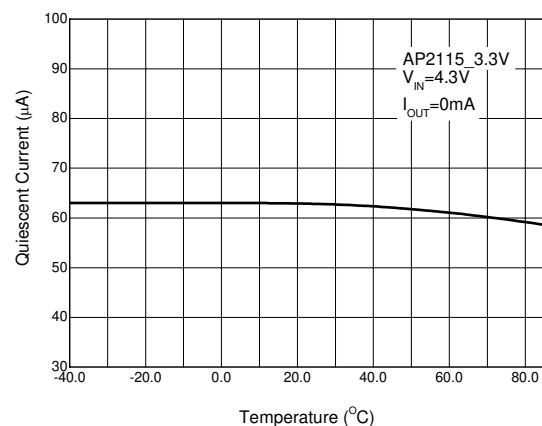


Figure 7. Quiescent Current vs. Temperature

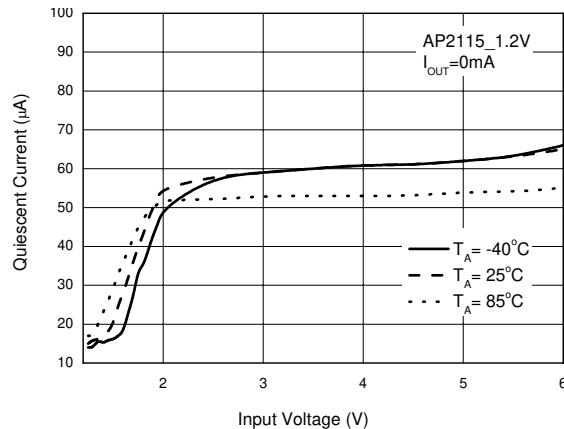
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Typical Performance Characteristics (Continued)


Figure 8. Quiescent Current vs. Input Voltage

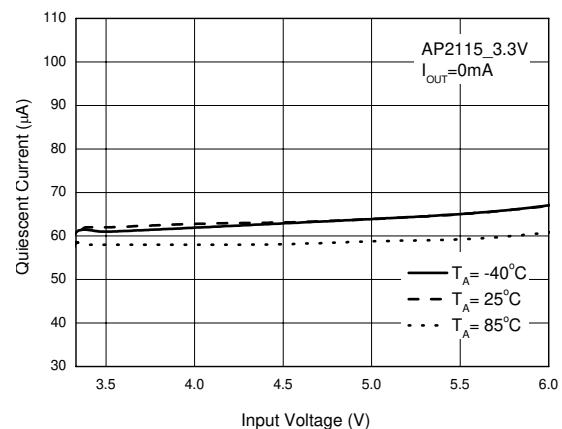


Figure 9. Quiescent Current vs. Input Voltage

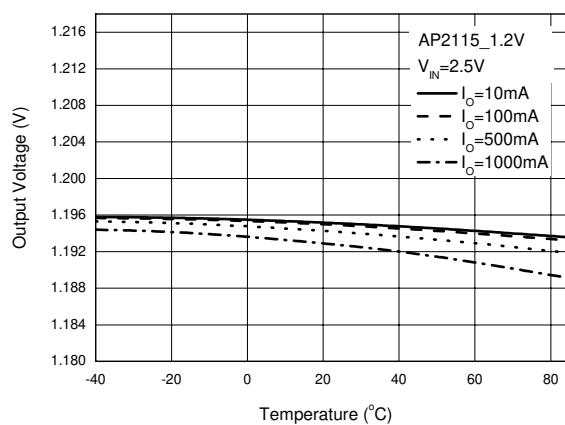


Figure 10. Output Voltage vs. Temperature

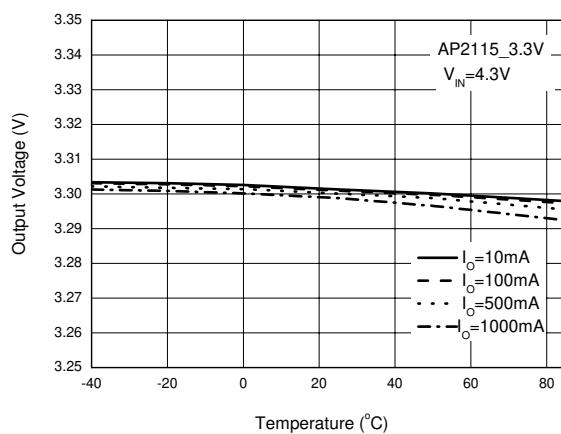


Figure 11. Output Voltage vs. Temperature

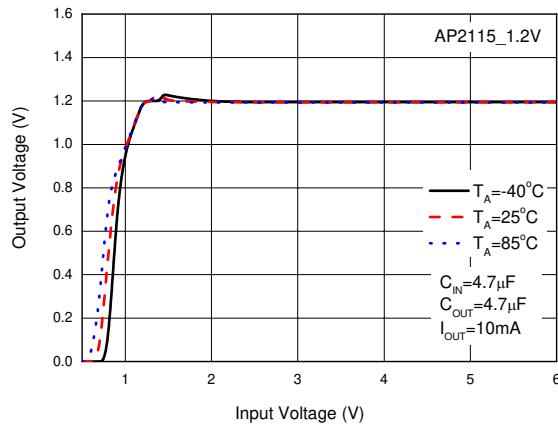
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Typical Performance Characteristics (Continued)


Figure 12. Output Voltage vs. Input Voltage

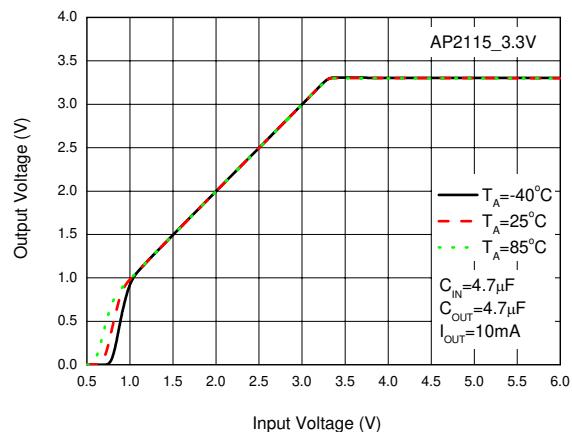


Figure 13. Output Voltage vs. Input Voltage

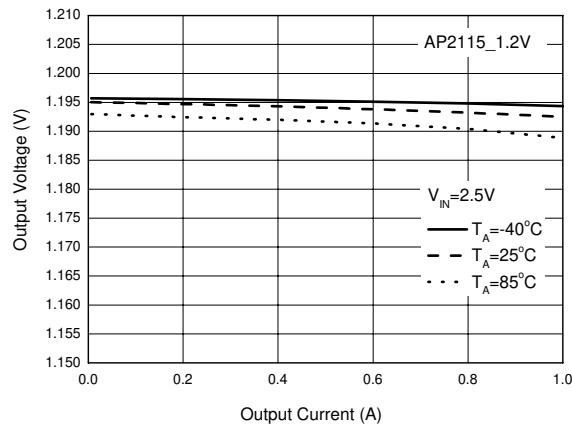


Figure 14. Output Voltage vs. Output Current

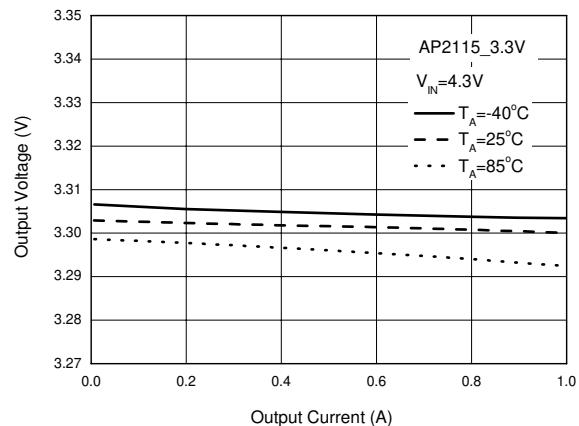


Figure 15. Output Voltage vs. Output Current

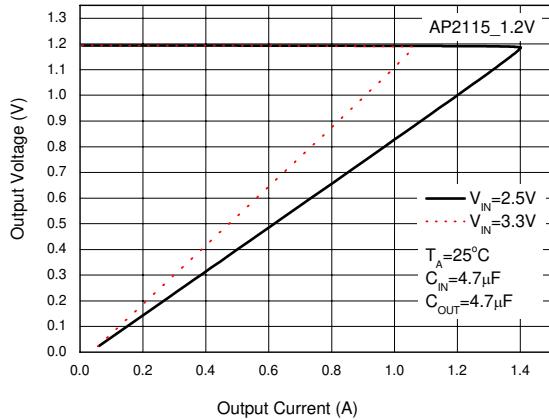
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Typical Performance Characteristics (Continued)


Figure 16. Output Voltage vs. Output Current

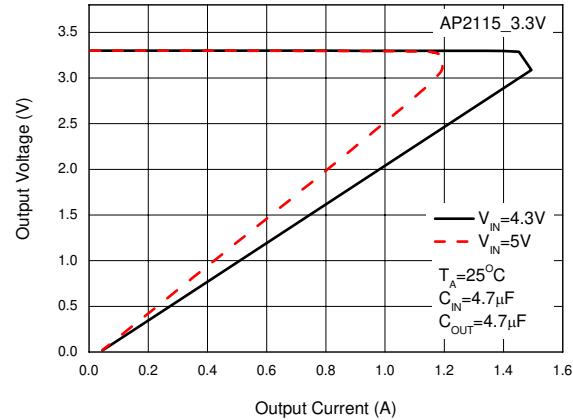


Figure 17. Output Voltage vs. Output Current

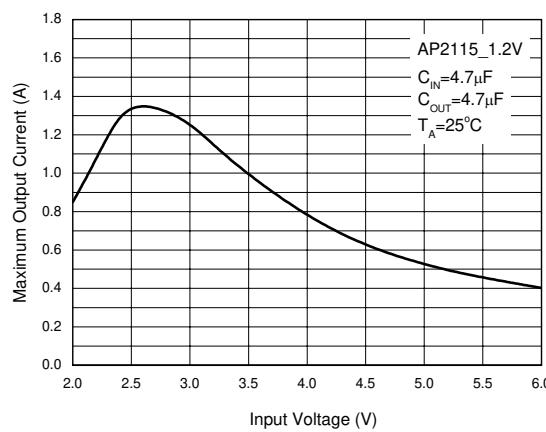


Figure 18. Maximum Output Current vs. Input Voltage

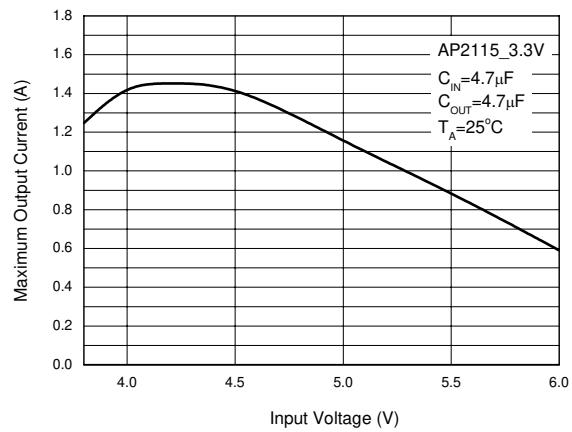


Figure 19. Maximum Output Current vs. Input Voltage

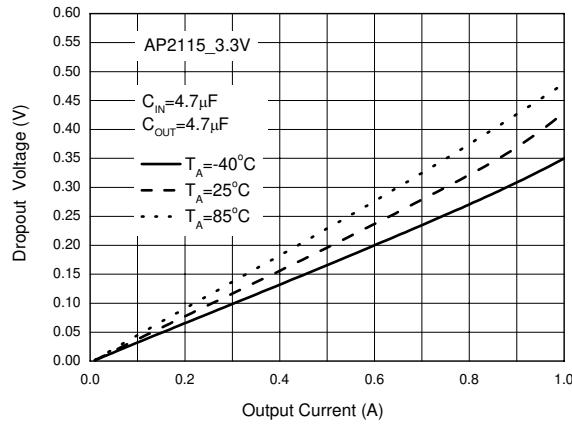
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Typical Performance Characteristics (Continued)


Figure 20. Dropout Voltage vs. Output Current

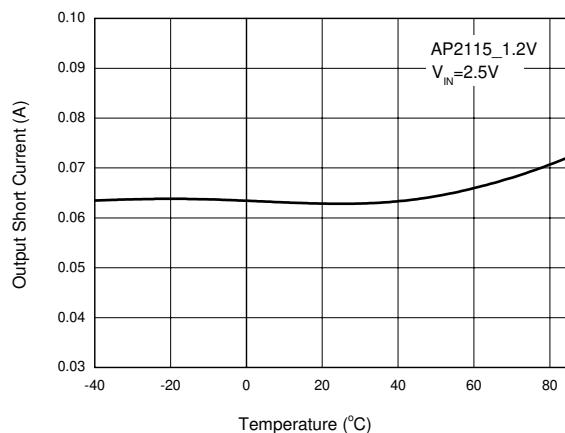


Figure 21. Output Short Current vs. Temperature

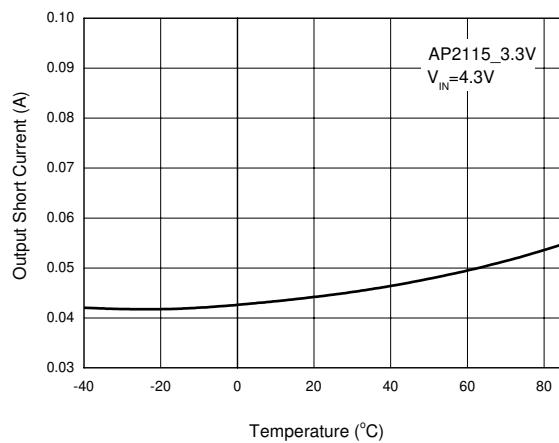


Figure 22. Output Short Current vs. Temperature

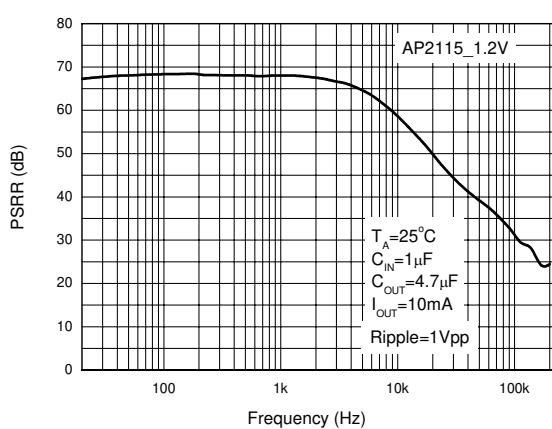


Figure 23. PSRR vs. Frequency

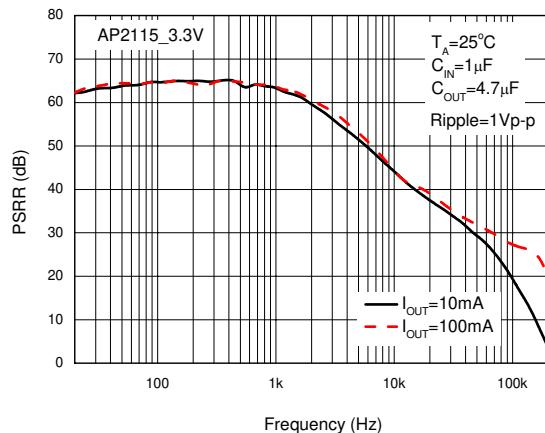
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**Typical Performance Characteristics (Continued)**

Figure 24. PSRR vs. Frequency

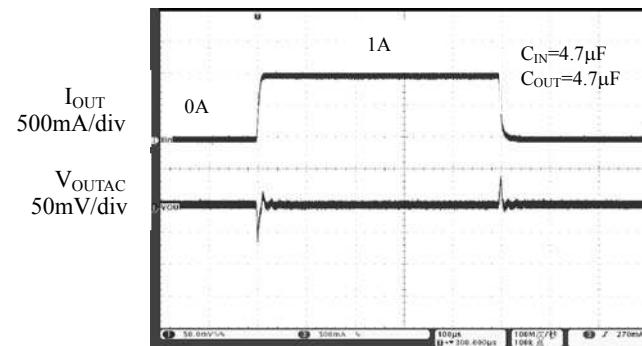


Figure 25. Load Transient

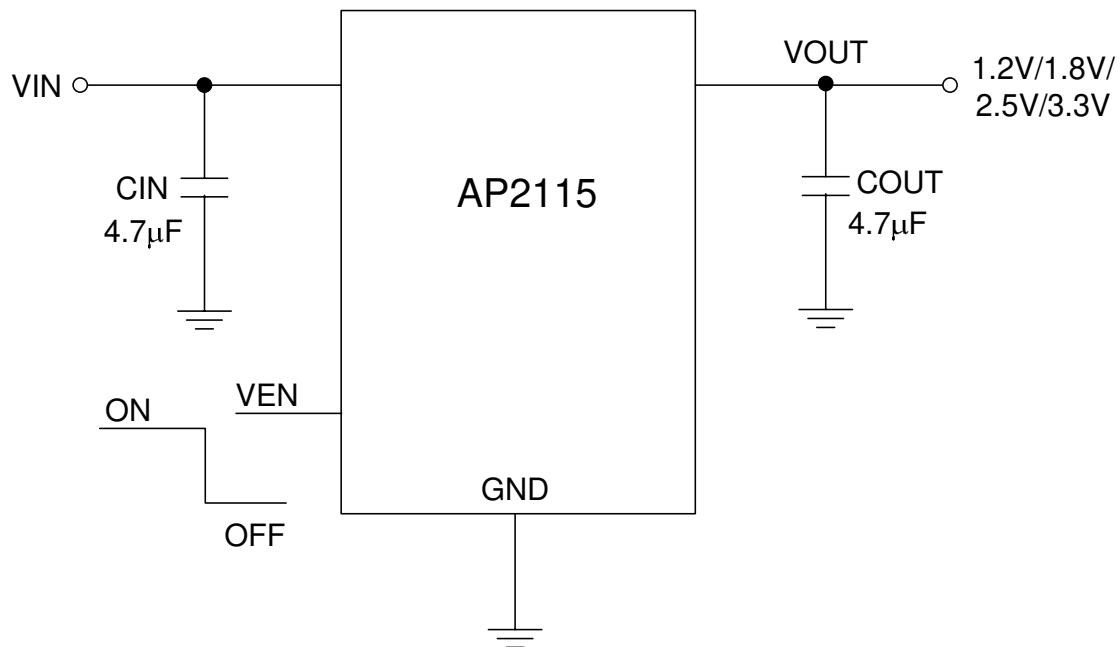
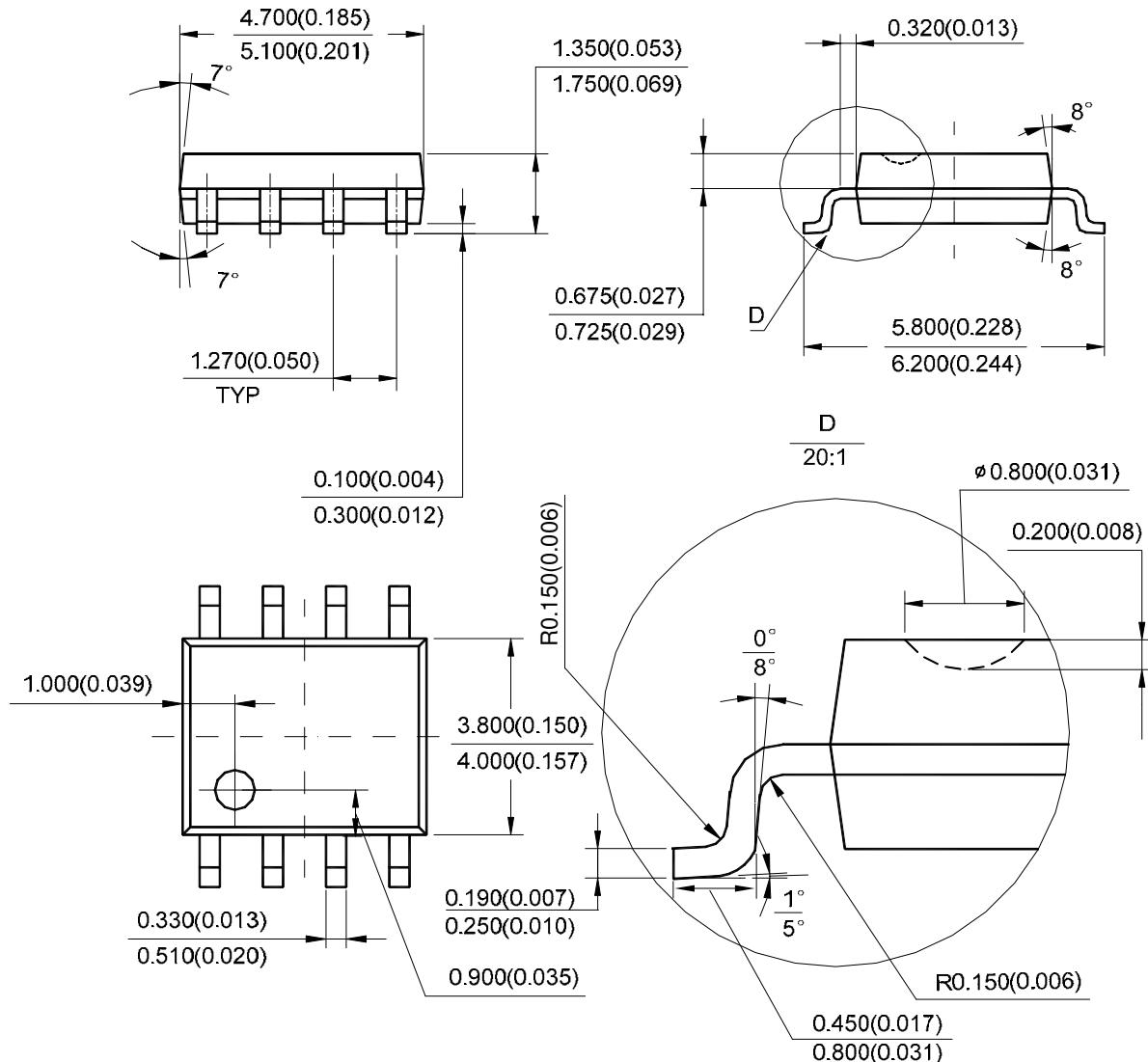
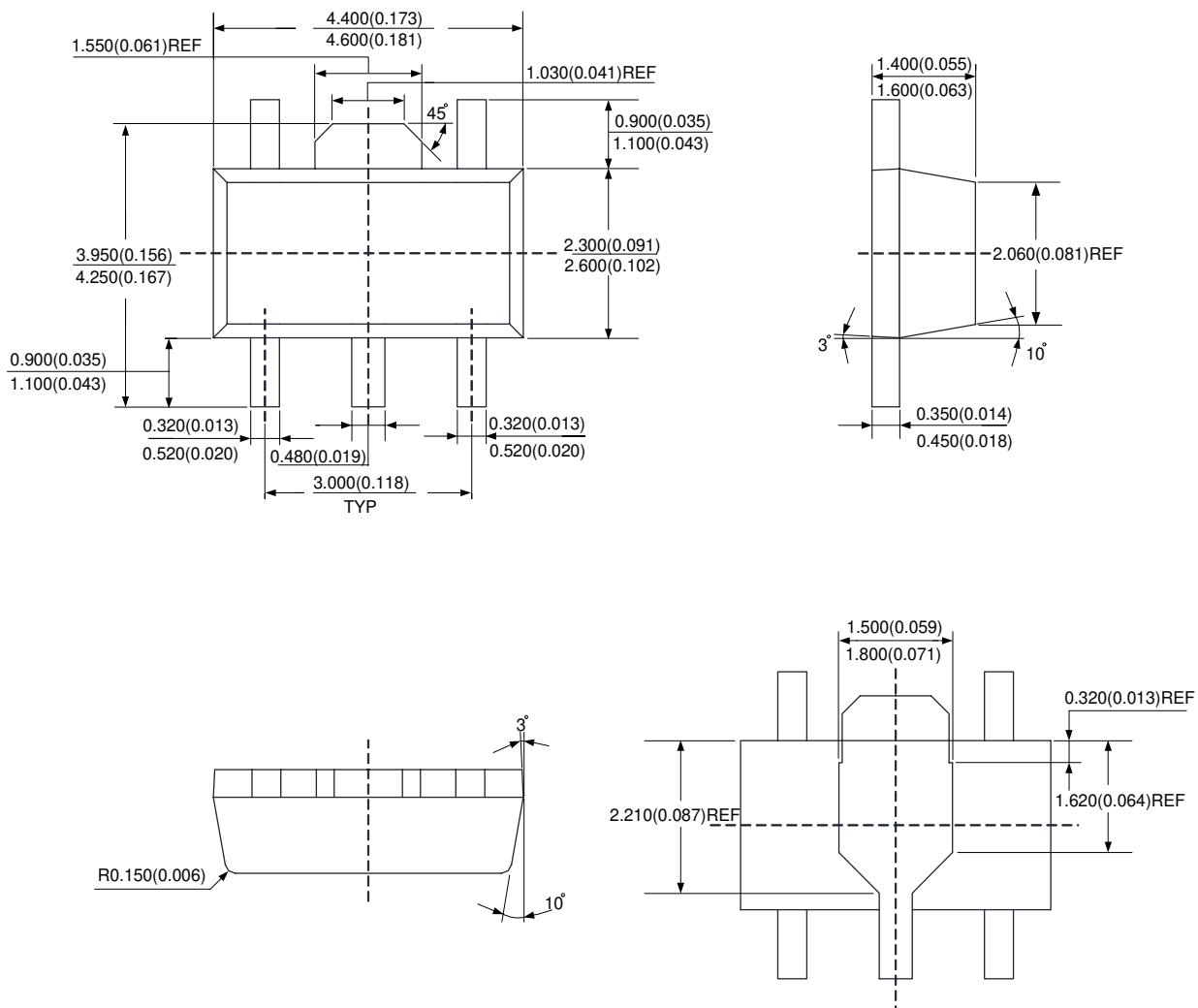
1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115**Typical Application**

Figure 26. AP2115 Typical Application

1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Mechanical Dimensions
SOIC-8
Unit: mm(inch)


Note: Eject hole, oriented hole and mold mark is optional.

1A LOW NOISE CMOS LDO REGULATOR WITH ENABLE AP2115
Mechanical Dimensions (Continued)
SOT-89-5
Unit: mm(inch)




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