HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR AP2120

General Description

The AP2120 series are positive voltage regulator ICs fabricated by CMOS process. Each of these ICs consists of a voltage reference, an error amplifier, a resistor network for setting output voltage, a current limit circuit for current protection.

The AP2120 series feature high supply voltage ripple rejection, low dropout voltage, low noise, high output voltage accuracy, and low current consumption which make them ideal for use in various battery-powered devices.

The AP2120 series have 1.2V, 1.3V, 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.2V, 3.3V and 5.0V versions.

The AP2120 are available in standard SOT-23 package.

Features

- Low Dropout Voltage at I_{OUT}=100mA: 200mV Typical (Except 1.2V, 1.3V and 1.5V Versions)
- Low Quiescent Current: 25μA Typical
- High Ripple Rejection: 65dB Typical （f=1kHz）
- Output Current: More Than 150mA (250mA Limit)
- Extremely Low Noise: 15μVrms@V_{OUT}=1.2V, 1.3V, 1.5V (10Hz to 100kHz)
- Excellent Line Regulation: 4mV Typical
- Excellent Load Regulation: 12mV Typical
- High Output Voltage Accuracy: ±2%
- Excellent Line Transient Response and Load Transient Response
- Compatible with Low ESR Ceramic Capacitor (as Low as 1μF)

Applications

- Mobile Phones, Cordless Phones
- Wireless Communication Equipment
- Portable Games
- Cameras, Video Recorders
- Sub-board Power Supplies for Telecom Equipment
- Battery Powered Equipment

SOT-23

Figure 1. Package Types of AP2120

Pin Configuration

N Package
(SOT-23)

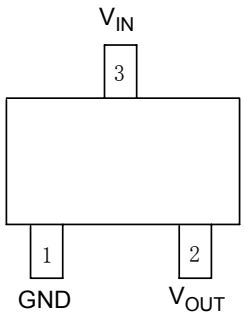


Figure 2. Pin Configuration of AP2120 (Top View)

Pin Description

Pin Number	Pin Name	Function
1	GND	Ground
2	V_{OUT}	Regulated Output Voltage
3	V_{IN}	Input Voltage

Functional Block Diagram

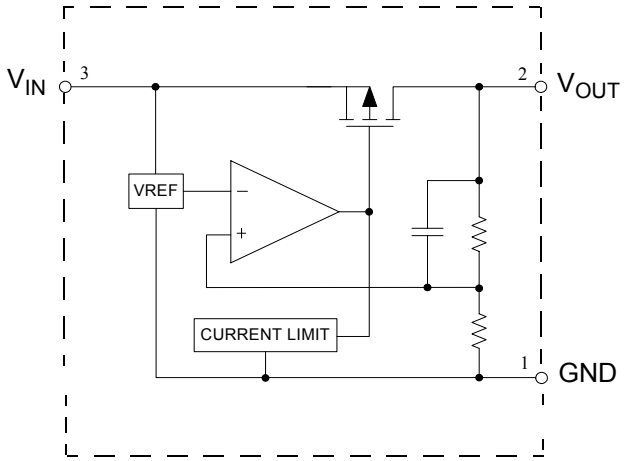
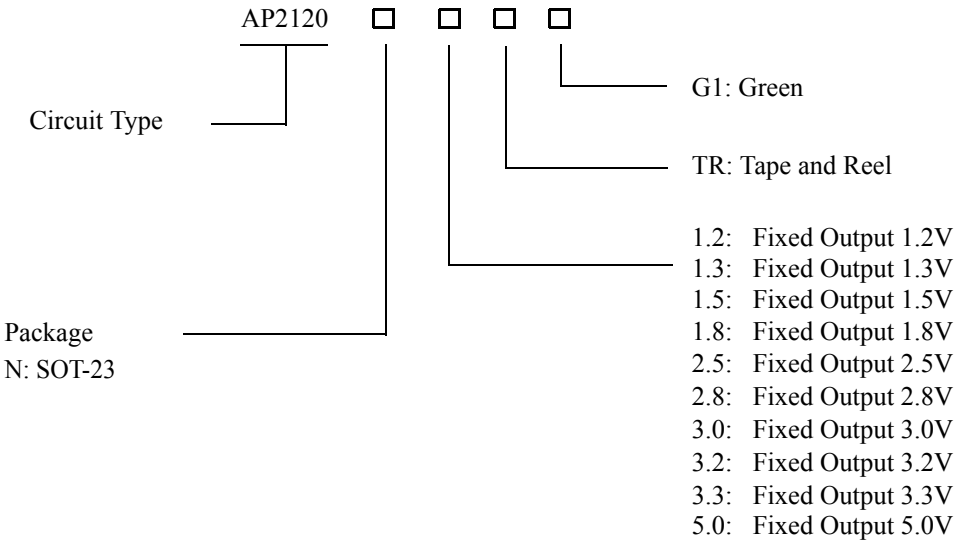


Figure 3. Functional Block Diagram of AP2120

Ordering Information



Package	Temperature Range	Part Number	Marking ID	Packing Type
SOT-23	-40 to 85°C	AP2120N-1.2TRG1	GR4	Tape & Reel
		AP2120N-1.3TRG1	GR5	Tape & Reel
		AP2120N-1.5TRG1	GR6	Tape & Reel
		AP2120N-1.8TRG1	GR7	Tape & Reel
		AP2120N-2.5TRG1	GR8	Tape & Reel
		AP2120N-2.8TRG1	GR9	Tape & Reel
		AP2120N-3.0TRG1	GS2	Tape & Reel
		AP2120N-3.2TRG1	GS3	Tape & Reel
		AP2120N-3.3TRG1	GS4	Tape & Reel
		AP2120N-5.0TRG1	GS5	Tape & Reel

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

Absolute Maximum Ratings (Note 1)

Parameter	Symbol	Value	Unit
Input Voltage	V_{IN}	6.5	V
Enable Input Voltage	V_{CE}	-0.3 to V_{IN}+0.3	V
Output Current	I_{OUT}	300	mA
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 to 150	°C
Lead Temperature (Soldering, 10sec)	T_{LEAD}	260	°C
Thermal Resistance (Note 2)	θ_{JA}	250	°C/W
ESD (Human Body Model)	ESD	2000	V
ESD (Machine Model)	ESD	200	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.

Note 2: Absolute maximum ratings indicate limits beyond which damage to the component may occur. Electrical specifications do not apply when operating the device outside of its operating ratings. The maximum allowable power dissipation is a function of the maximum junction temperature, $T_{J(max)}$, the junction-to-ambient thermal resistance, θ_{JA}, and the ambient temperature, T_A. The maximum allowable power dissipation at any ambient temperature is calculated using: $P_{D(max)}=(T_{J(max)} - T_A)/\theta_{JA}$. Exceeding the maximum allowable power dissipation will result in excessive die temperature.

Recommended Operating Conditions

Parameter	Symbol	Min	Max	Unit
Input Voltage	V_{IN}	2	6	V
Operating Junction Temperature Range	T_J	-40	85	°C

Electrical Characteristics

AP2120-1.2 Electrical Characteristics

(V_{IN}=2.2V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=2.2V 1mA≤I_{OUT}≤30mA	1.176	1.2	1.224	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=2.2V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	2.2V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		700	900	mV
		I_{OUT}=100mA		700	900	
		I_{OUT}=150mA		700	900	
		I_{OUT}=200mA		700	900	
Quiescent Current	I_Q	V_{IN}=2.2V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=2.2V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±120**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C, I_{OUT}=0 10Hz ≤f≤100kHz		15		μVrms

Electrical Characteristics (Continued)

AP2120-1.3 Electrical Characteristics

(V_{IN}=2.3V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=2.3V 1mA≤I_{OUT}≤30mA	1.274	1.3	1.326	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=2.3V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	2.3V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		600	800	mV
		I_{OUT}=100mA		600	800	
		I_{OUT}=150mA		600	800	
		I_{OUT}=200mA		600	800	
Quiescent Current	I_Q	V_{IN}=2.3V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=2.3V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±130**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C, I_{OUT}=0 10Hz ≤f≤100kHz		15		μVrms

Electrical Characteristics (Continued)

AP2120-1.5 Electrical Characteristics

(V_{IN}=2.5V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=2.5V 1mA≤I_{OUT}≤30mA	1.47	1.5	1.53	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=2.5V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	2.3V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		400	600	mV
		I_{OUT}=100mA		400	600	
		I_{OUT}=150mA		400	600	
		I_{OUT}=200mA		400	600	
Quiescent Current	I_Q	V_{IN}=2.5V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=2.5V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±150**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C, I_{OUT}=0 10Hz ≤f≤100kHz		15		μVrms

Electrical Characteristics (Continued)

AP2120-1.8 Electrical Characteristics

(V_{IN}=2.8V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=2.8V 1mA≤I_{OUT}≤30mA	1.764	1.8	1.836	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=2.8V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	2.3V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=2.8V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=2.8V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±180**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-2.5 Electrical Characteristics

(V_{IN}=3.5V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=3.5V 1mA≤I_{OUT}≤30mA	2.45	2.5	2.55	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=3.5V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	3V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=3.5V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=3.5V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±250**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-2.8 Electrical Characteristics

(V_{IN}=3.8V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=3.8V 1mA≤I_{OUT}≤30mA	2.744	2.8	2.856	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=3.8V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	3.3V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=3.8V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=3.8V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±280**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-3.0 Electrical Characteristics

(V_{IN}=4V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=4V 1mA≤I_{OUT}≤30mA	2.94	3.0	3.06	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=4V 1mA≤I_{OUT}≤80mA		12	40	mV
Line Regulation	V_{RLINE}	3.5V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=4V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=4V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±300**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-3.2 Electrical Characteristics

(V_{IN}=4.2V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=4.2V 1mA≤I_{OUT}≤30mA	3.136	3.2	3.264	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=4.2V 1mA≤ I_{OUT}≤ 80mA		12	40	mV
Line Regulation	V_{RLINE}	3.7V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=4.2V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=4.2V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±320**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-3.3 Electrical Characteristics

(V_{IN}=4.3V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=4.3V 1mA≤I_{OUT}≤30mA	3.234	3.3	3.366	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=4.3V 1mA≤ I_{OUT}≤ 80mA		12	40	mV
Line Regulation	V_{RLINE}	3.8V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=4.3V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=4.3V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±330**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Electrical Characteristics (Continued)

AP2120-5.0 Electrical Characteristics

(V_{IN}=6.0V, T_J=25°C, C_{IN}=1μF, C_{OUT}=1μF, **Bold** typeface applies over -40°C≤T_J≤85°C, unless otherwise specified.)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Voltage	V_{OUT}	V_{IN}=6.0V 1mA≤I_{OUT}≤30mA	4.9	5.0	5.1	V
Input Voltage	V_{IN}				6	V
Output Current	I_{OUT}	V_{IN}-V_{OUT}=1V	150			mA
Load Regulation	V_{RLOAD}	V_{IN}=4.3V 1mA≤ I_{OUT}≤ 80mA		12	40	mV
Line Regulation	V_{RLINE}	5.5V≤V_{IN}≤6V I_{OUT}=30mA		4	16	mV
Dropout Voltage	V_{DROP}	I_{OUT}=10mA		20	40	mV
		I_{OUT}=100mA		200	300	
		I_{OUT}=150mA		300	500	
Quiescent Current	I_Q	V_{IN}=6.0V, I_{OUT}=0mA		25	50	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=1kHz V_{IN}=6.0V		65		dB
Output Voltage Temperature Coefficient	$\Delta V_{OUT}/\Delta T$	I_{OUT}=30mA		**±330**		μV/°C
	$(\Delta V_{OUT}/V_{OUT})/\Delta T$			**±100**		ppm/°C
Short Current Limit	I_{LIMIT}	V_{OUT}=0V		50		mA
RMS Output Noise	V_{NOISE}	T_A=25°C 10Hz ≤f≤100kHz		30		μVrms

Typical Performance Characteristics

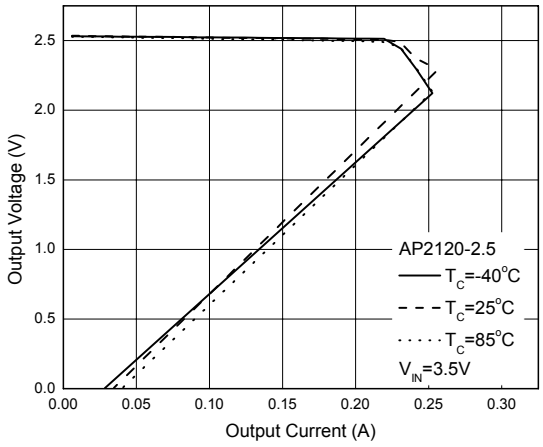


Figure 4. Output Voltage vs. Output Current

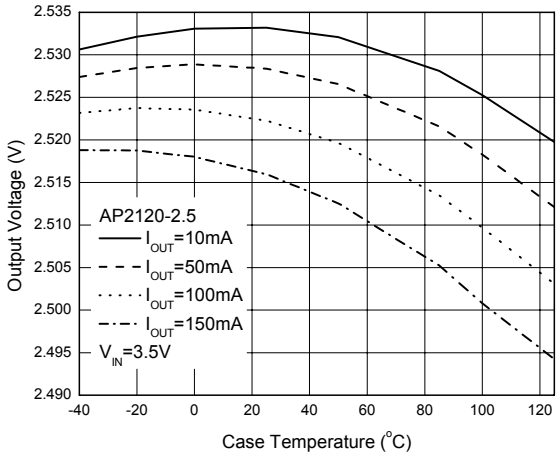


Figure 5. Output Voltage vs. Case Temperature

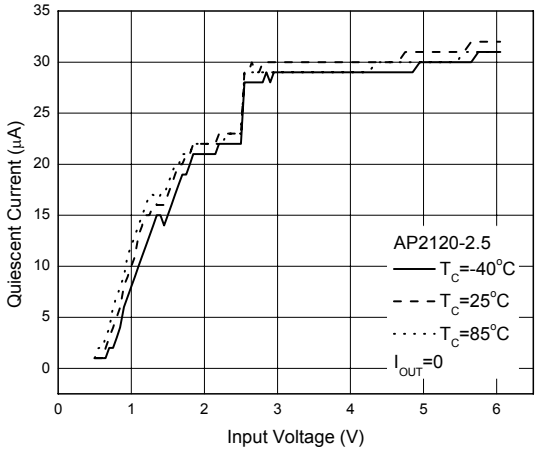


Figure 6. Quiescent Current vs. Input Voltage

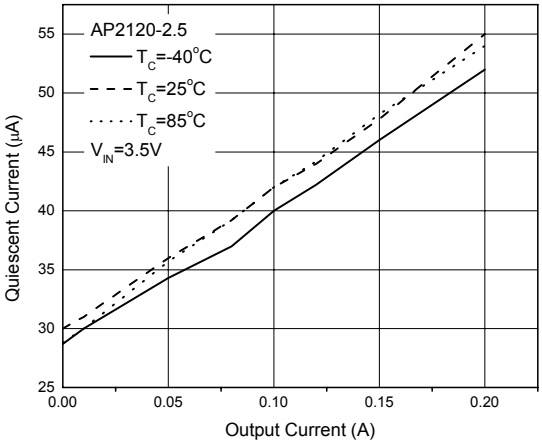


Figure 7. Quiescent Current vs. Output Current

Typical Performance Characteristics (Continued)

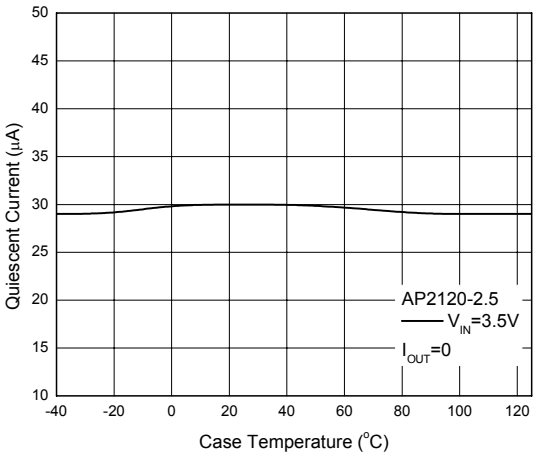


Figure 8. Quiescent Current vs. Case Temperature

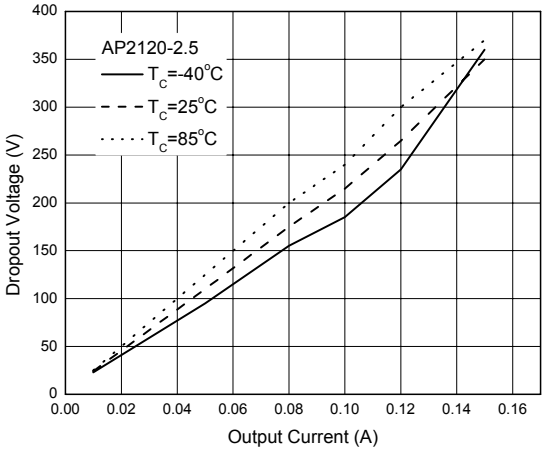


Figure 9. Dropout Voltage vs. Output Current

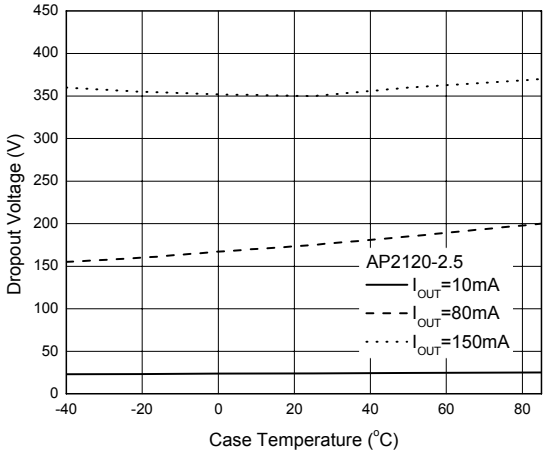


Figure 10. Dropout Voltage vs. Case Temperature

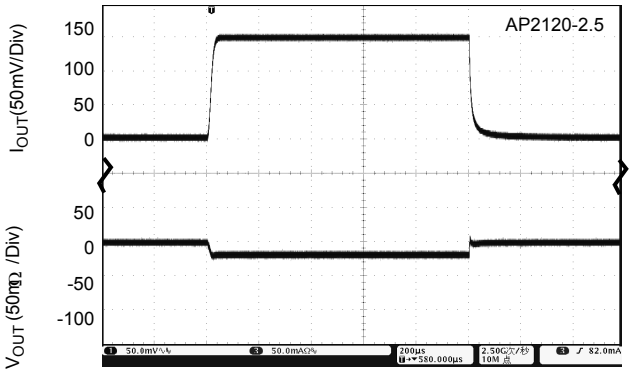


Figure 11. Load Transient (I_{OUT}=0 to 150mA)

Typical Performance Characteristics (Continued)

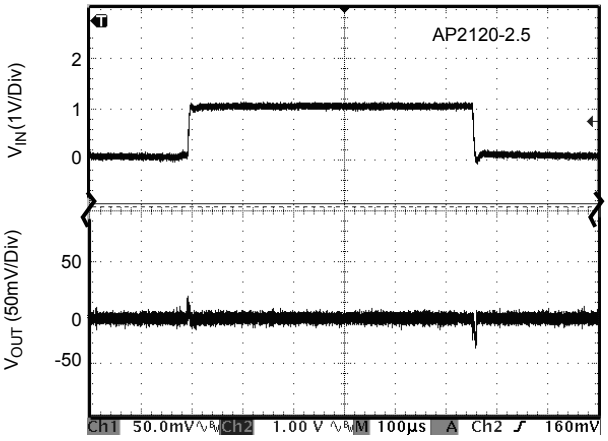


Figure 12. Line Transient
(Condition:V_{IN}=2.5V to 3.5,I_{OUT}=10mA)

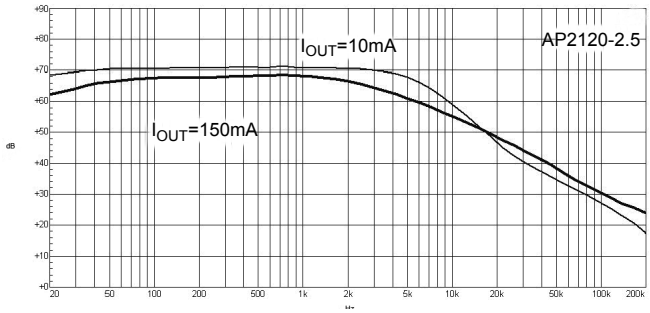


Figure 13. PSRR vs. Frequency

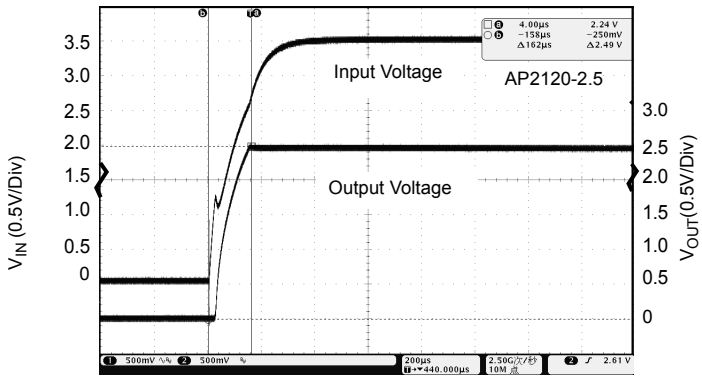
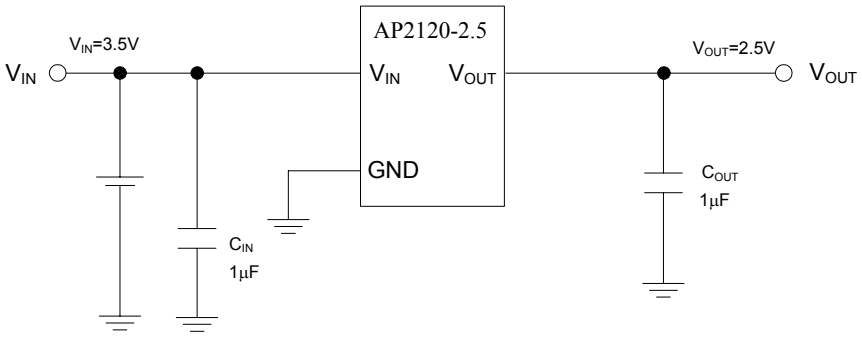


Figure 14. Start-up

Typical Application

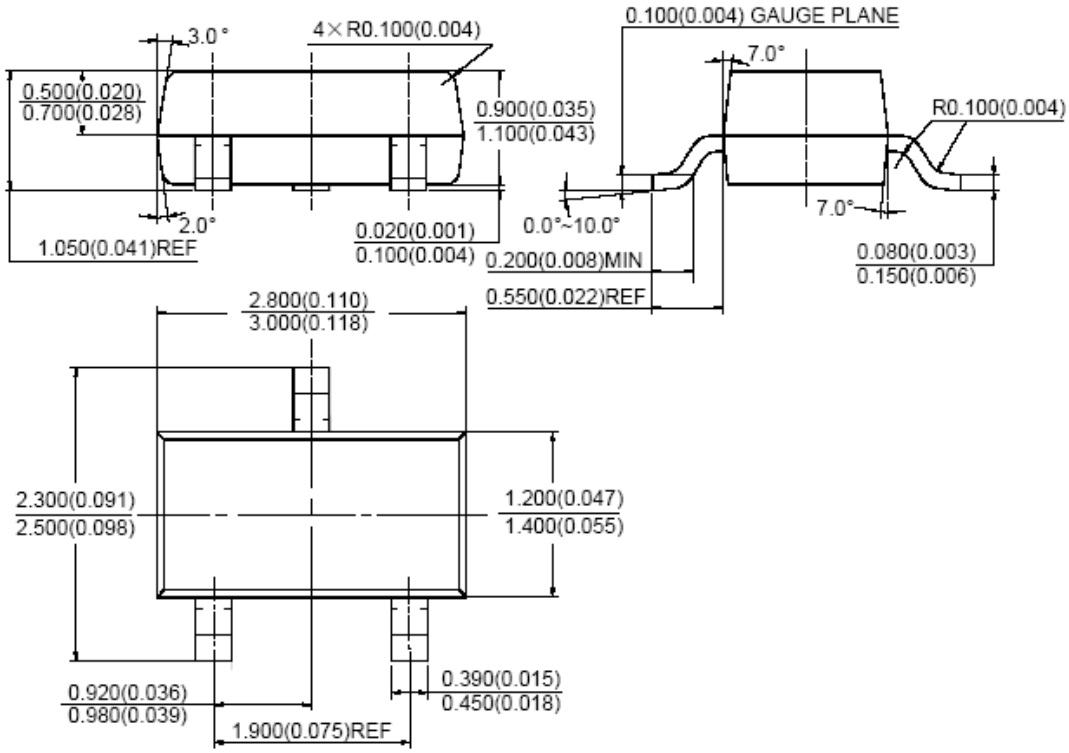


Note: Filter capacitors are required at the AP2120's input and output. 1μF capacitor is required at the input. The minimum output capacitance required for stability should be more than 1μF with ESR from 0.01Ω to 100Ω. Ceramic capacitors are recommended.

Figure 15. Typical Application of AP2120

Mechanical Dimensions

SOT-23 **Unit: mm(inch)**



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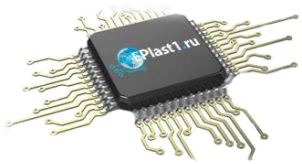

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