

**HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR****AP2122****General Description**

The AP2122 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 and a chip enable circuit.

The AP2122 series feature high 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 AP2122 series have 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.2V and 3.3V versions.

The AP2122 are available in standard SOT-23-5 package.

Features

- Low Dropout Voltage at $I_{OUT}=100mA$: 150mV Typical (Except 1.5V Version)
- Low Standby Current: 0.1 μ A Typical
- Low Quiescent Current: 25 μ A Typical
- High Ripple Rejection: 70dB Typical ($f=10kHz$)
- Maximum Output Current: More Than 150mA (300mA Limit)
- Extremely Low Noise: 30 μ Vrms (10Hz to 100kHz)
- Excellent Line Regulation: 4mV Typical
- Excellent Load Regulation: 12mV Typical
- High Output Voltage Accuracy: $\pm 2\%$
- Excellent Line and Load Transient Response
- Compatible with Low ESR Ceramic Capacitor (as Low as 1 μ F)

Applications

- Mobile Phones, Cordless Phones
- MP3/4
- Portable Electronic Devices
- Cameras, Video Recorders
- Sub-board Power Supplies for Telecom Equipment
- Battery Powered Equipment

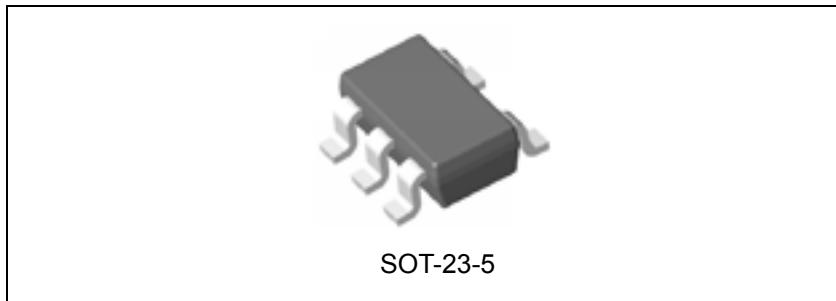


Figure 1. Package Type of AP2122

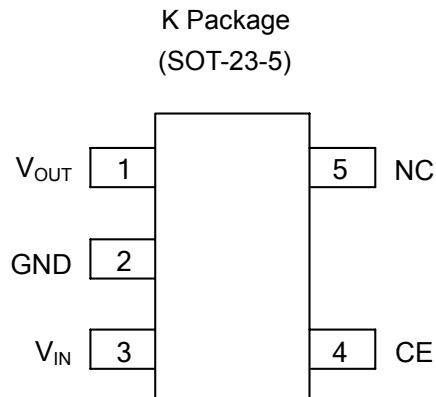
HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR**AP2122****Pin Configuration**

Figure 2. Pin Configuration of AP2122 (Top View)

Pin Description

Pin Number	Pin Name	Function
1	V _{OUT}	Regulated output voltage
2	GND	Ground
3	V _{IN}	Input voltage
4	CE	Active high enable input pin. Logic high=enable, logic low=shutdown
5	NC	No connection

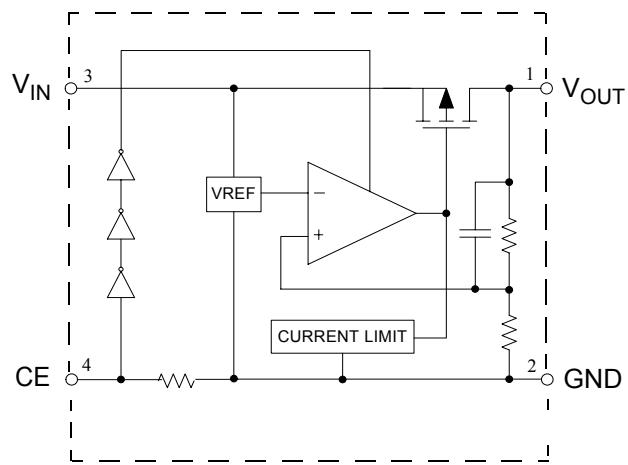
HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR**AP2122****Functional Block Diagram**

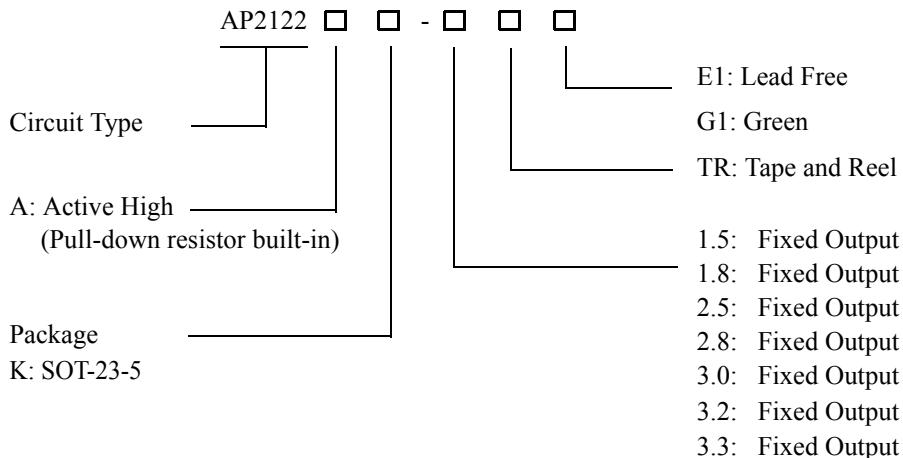
Figure 3. Functional Block Diagram of AP2122



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Ordering Information



Package	Temperature Range	Condition	Part Number		Marking ID		Packing Type
			Lead Free	Green	Lead Free	Green	
SOT-23-5	-40 to 85°C	Active High (Pull-down resistor built-in)	AP2122AK-1.5TRE1	AP2122AK-1.5TRG1	E2Z	G2Z	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-1.8TRE1	AP2122AK-1.8TRG1	E2U	G2U	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-2.5TRE1	AP2122AK-2.5TRG1	E2V	G2V	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-2.8TRE1	AP2122AK-2.8TRG1	E2W	G2W	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.0TRE1	AP2122AK-3.0TRG1	E2X	G2X	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.2TRE1	AP2122AK-3.2TRG1	E3Y	G3Y	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.3TRE1	AP2122AK-3.3TRG1	E2Y	G2Y	Tape & Reel

BCD Semiconductor's Pb-free products, as designated with "E1" suffix in the part number, are RoHS compliant. Products with "G1" suffix are available in green packages.



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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)/θ_{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



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Electrical Characteristics

AP2122-1.5 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	
Quiescent Current	I _Q	V _{IN} =2.5V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =2.5V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =2.5V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±150		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-1.8 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =2.8V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =2.8V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =2.8V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±180		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-2.5 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =3.5V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =3.5V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =3.5V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±250		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-2.8 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =3.8V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =3.8V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =3.8V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±280		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-3.0 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =4V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =4V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =4V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±300		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-3.2 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =4.2V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =4.2V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =4.2V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±320		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W



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Electrical Characteristics (Continued)

AP2122-3.3 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		150	300	
		I _{OUT} =150mA		200	400	
Quiescent Current	I _Q	V _{IN} =4.3V, I _{OUT} =0mA		25	50	μA
Standby Current	I _{STD}	V _{IN} =4.3V V _{CE} in OFF mode		0.1	1	μA
Power Supply Rejection Ratio	PSRR	Ripple 0.5Vp-p, f=10kHz V _{IN} =4.3V		70		dB
Output Voltage Temperature Coefficient	ΔV _{OUT} /ΔT	I _{OUT} =30mA		±330		μV/°C
	(ΔV _{OUT} /V _{OUT})/ΔT			±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
CE "High" Voltage		CE input voltage "High"	1.5			V
CE "Low" Voltage		CE input voltage "Low"			0.25	V
CE Pull-down Internal Resistance	R _{PD}		2.5	5	10	MΩ
Thermal Resistance (Junction to Case)	θ _{JC}	SOT-23-5		73.9		°C/W

HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR

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Typical Performance Characteristics

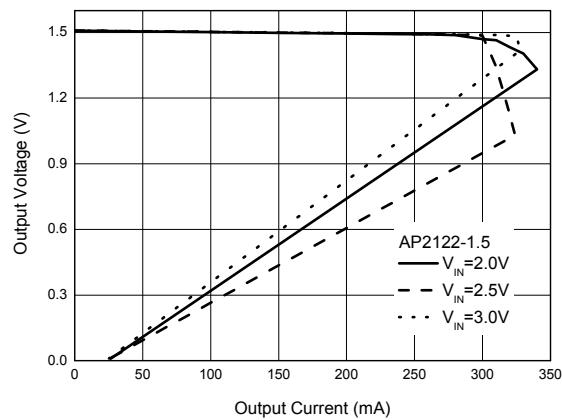


Figure 4. Output Voltage vs. Output Current

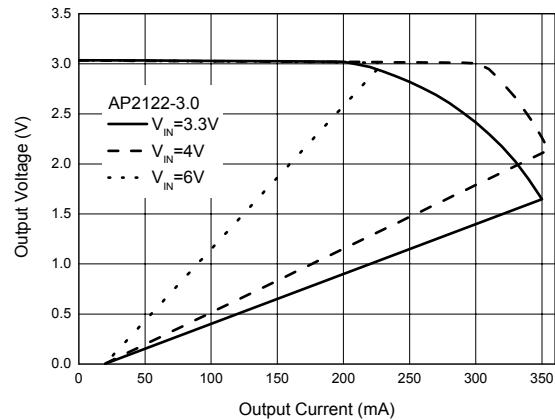


Figure 5. Output Voltage vs. Output Current

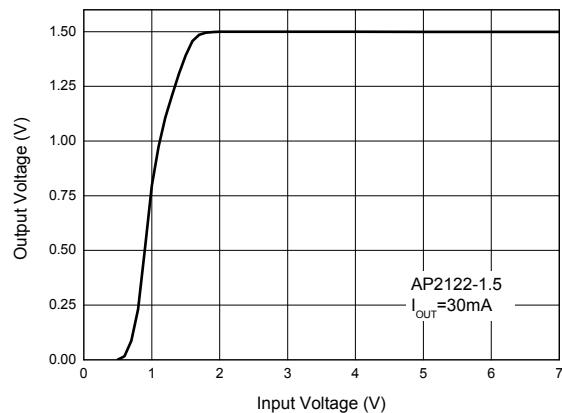


Figure 6. Output Voltage vs. Input Voltage

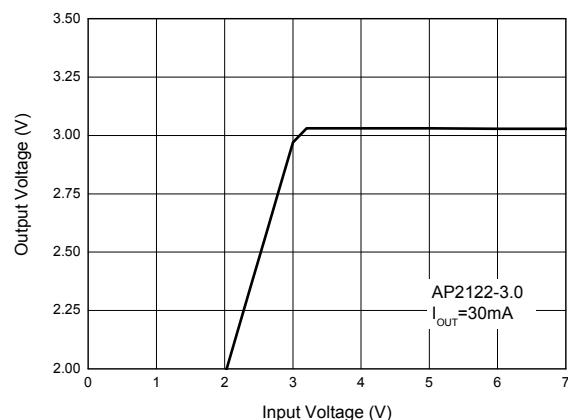


Figure 7. Output Voltage vs. Input Voltage

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Typical Performance Characteristics (Continued)

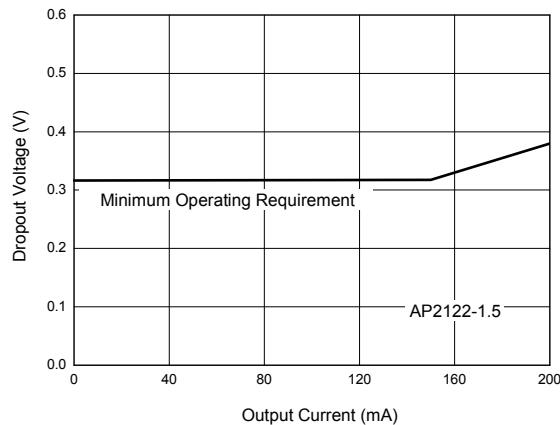


Figure 8. Dropout Voltage vs. Output Current

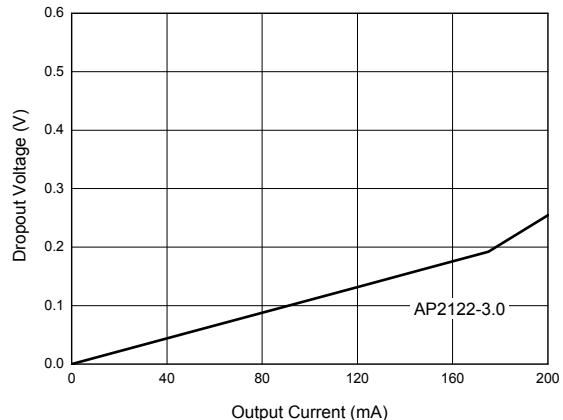


Figure 9. Dropout Voltage vs. Output Current

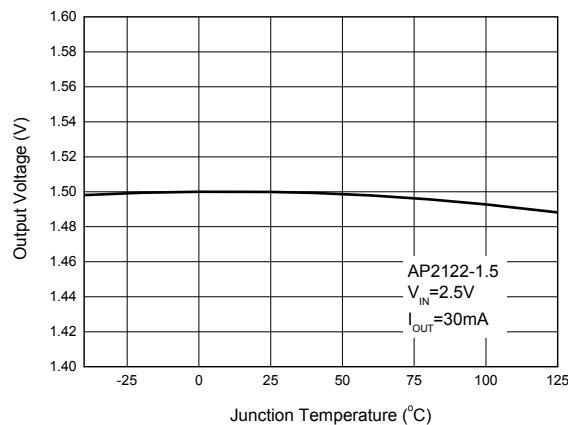


Figure 10. Output Voltage vs. Junction Temperature

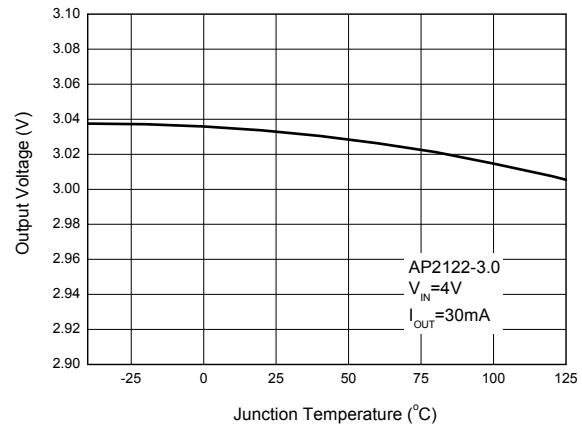


Figure 11. Output Voltage vs. Junction Temperature

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Typical Performance Characteristics (Continued)

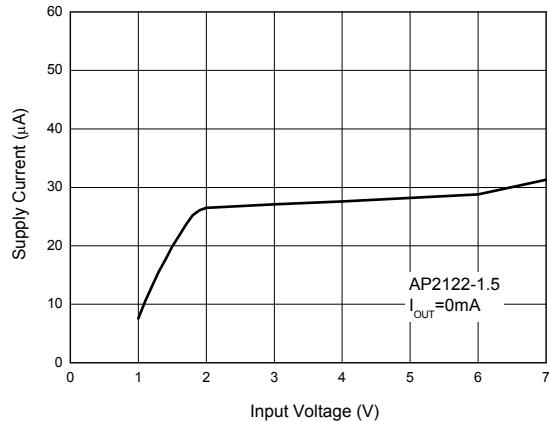


Figure 12. Supply Current vs. Input Voltage

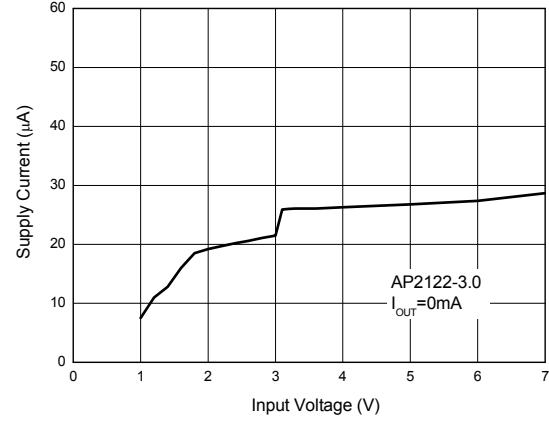


Figure 13. Supply Current vs. Input Voltage

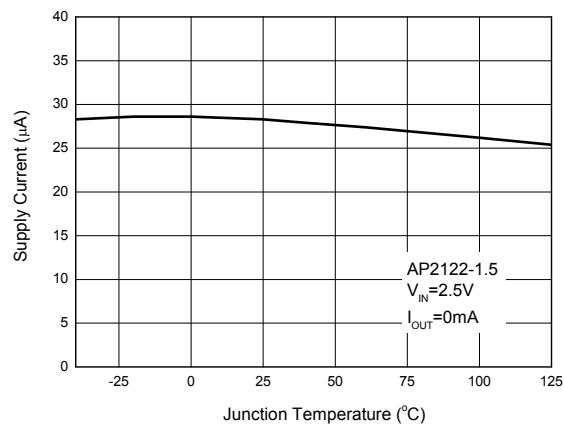


Figure 14. Supply Current vs. Junction Temperature

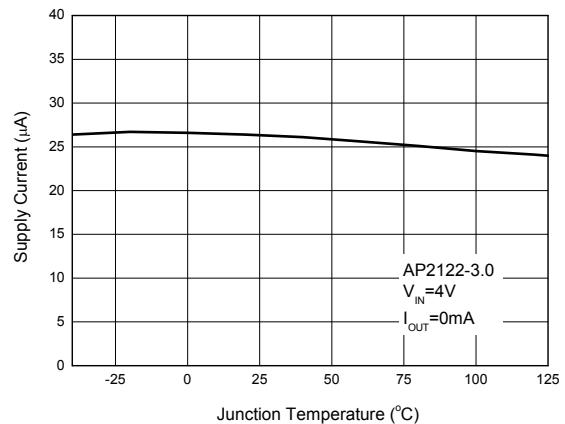


Figure 15. Supply Current vs. Junction Temperature

HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR

AP2122

Typical Performance Characteristics (Continued)

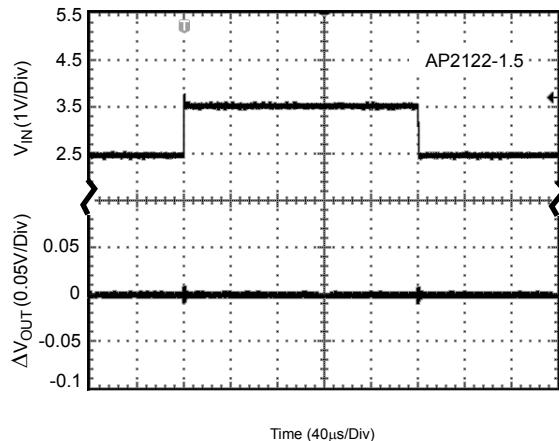


Figure 16. Line Transient
(Conditions: $I_{OUT}=30mA$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

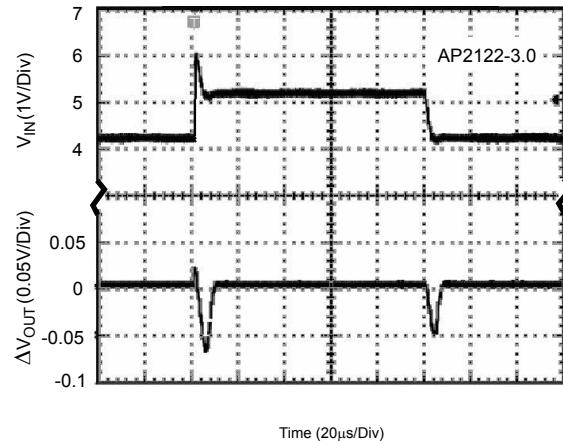


Figure 17. Line Transient
(Conditions: $I_{OUT}=30mA$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

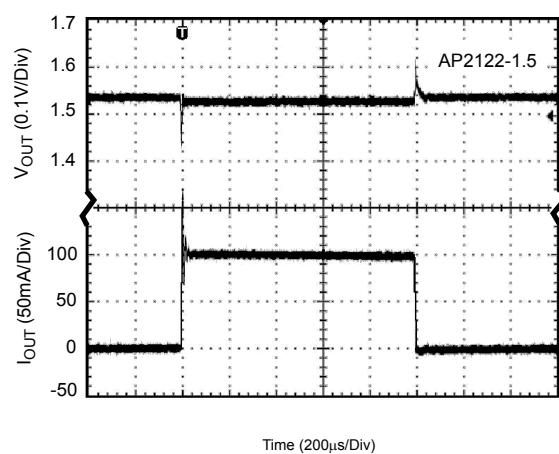


Figure 18. Load Transient
(Conditions: $V_{IN}=2.5V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

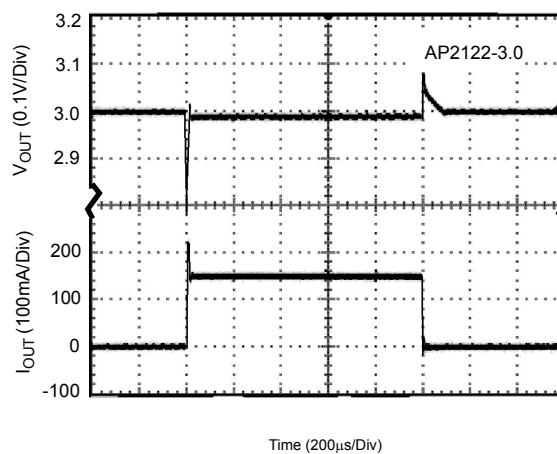


Figure 19. Load Transient
(Conditions: $V_{IN}=4V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

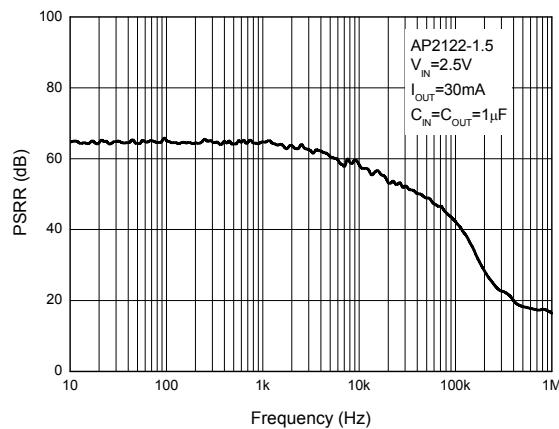
HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR**AP2122****Typical Performance Characteristics (Continued)**

Figure 20. PSRR vs. Frequency

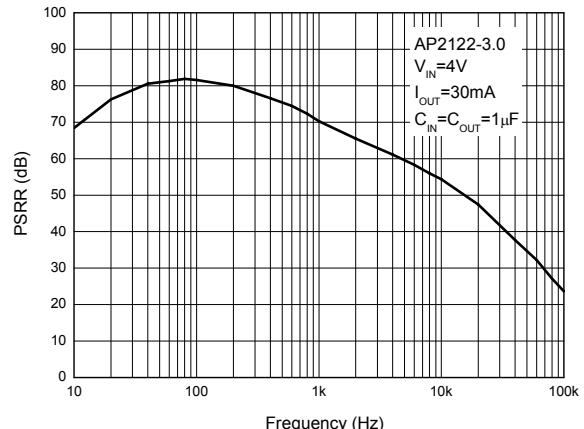
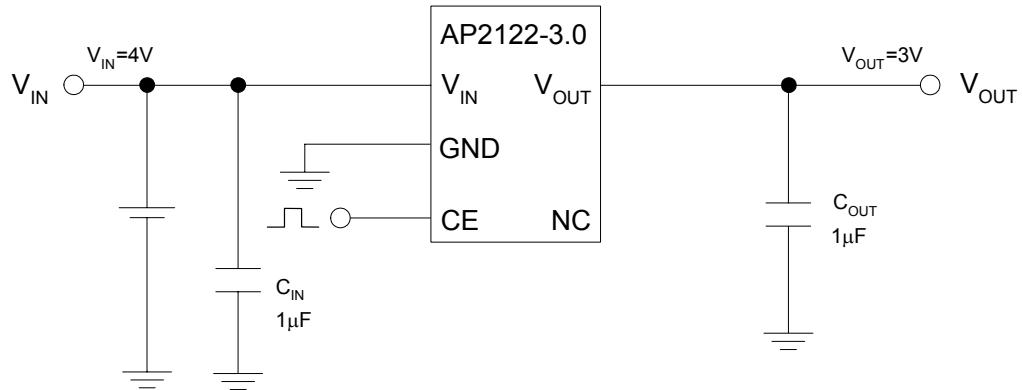


Figure 21. PSRR vs. Frequency

HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR**AP2122****Typical Application**

Note: Filter capacitors are required at the AP2122'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 22. Typical Application of AP2122

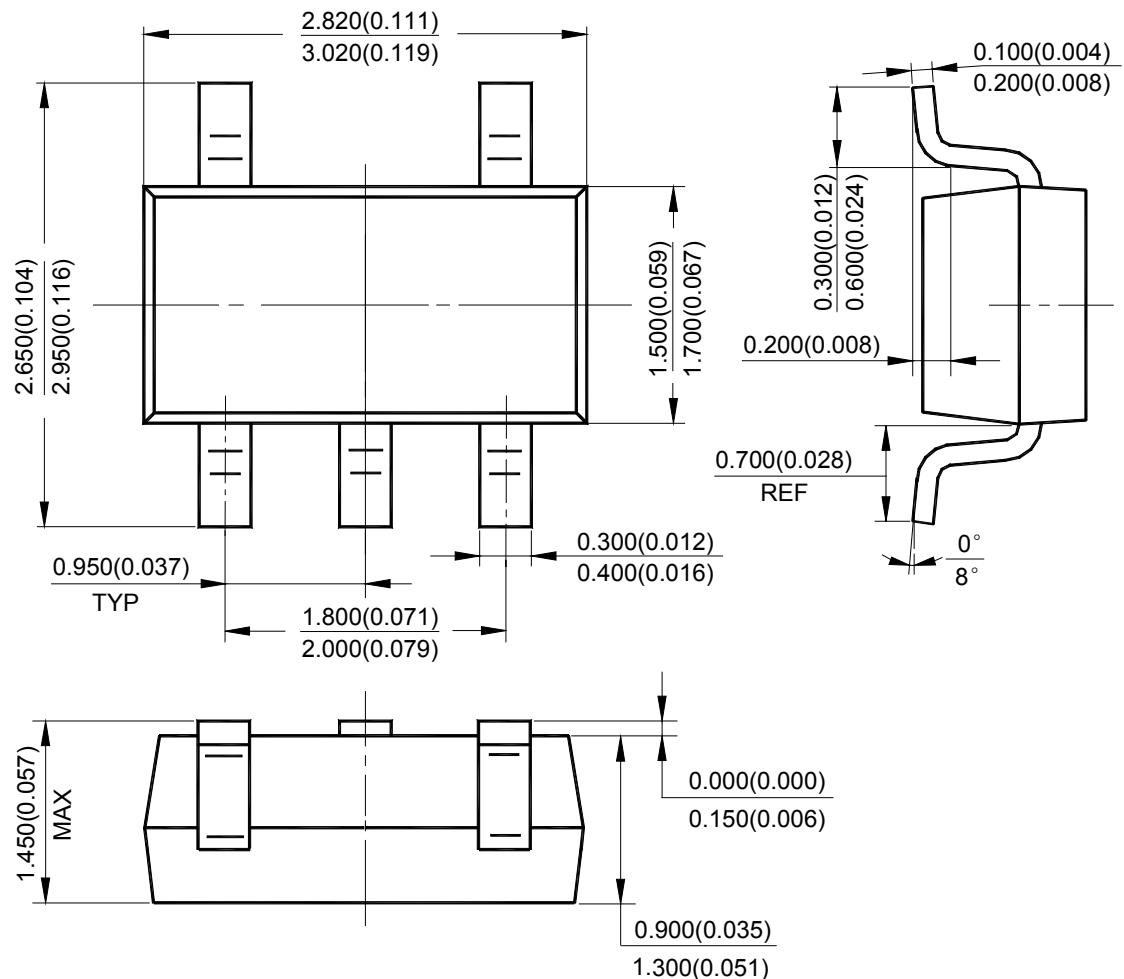
HIGH SPEED, EXTREMELY LOW NOISE LDO REGULATOR

AP2122

Mechanical Dimensions

SOT-23-5

Unit: mm(inch)





BCD Semiconductor Manufacturing Limited

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