

AXElite Products

瑞達科技股份有限公司

KingpeX Technology Incorporated

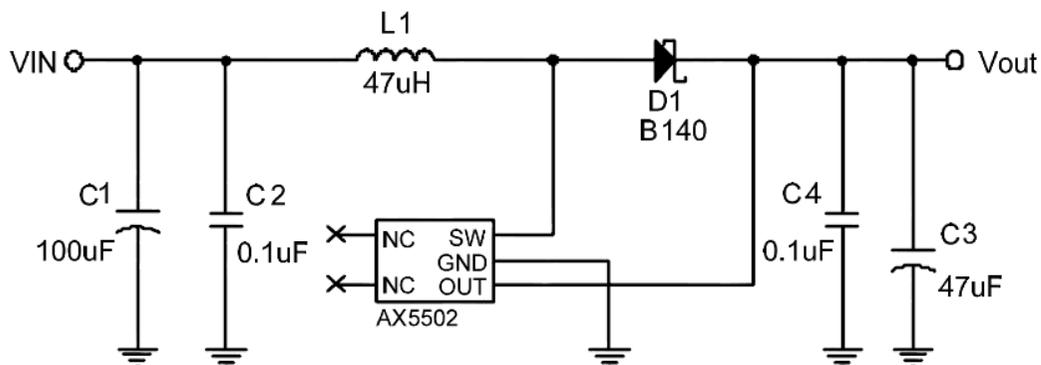
BOOST CONVERT CONTROL IC
PWM Buck DC/DC Converter
PWM Step-Down Controller

AX5502 MICROPOWER VFM STEP-UP DC/DC Converter

FEATURES

- Very Low Supply Current
- Regulated Output Voltage
- Wide range of output voltage is available from 2.2V to 5.0V by 0.1V steps
- Output Voltage Accuracy $\pm 5\%$
- Output Current up to 100mA
- Low ripple and low noise
- Very low start-up voltage
- High efficiency (VOUT = 5V TYP. 87%)
- Few external components
- Low profile: SOT23-3L, SOT23-5L and SOT89-3L Pb-Free

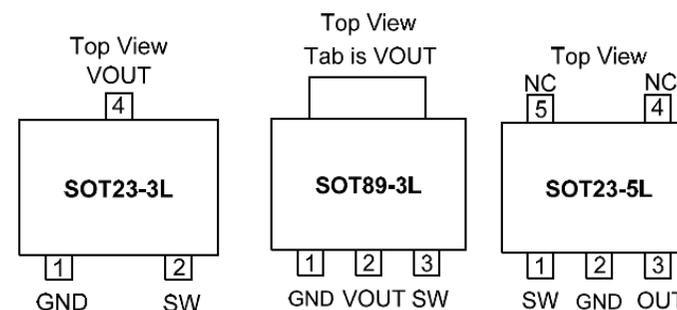
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
SW	Switch pin. Connect external inductor and diode here.
GND	Ground Pin
OUT	Output Voltage

PACKAGE



AX5511 1.2MHz, High Voltage, Boost Converter

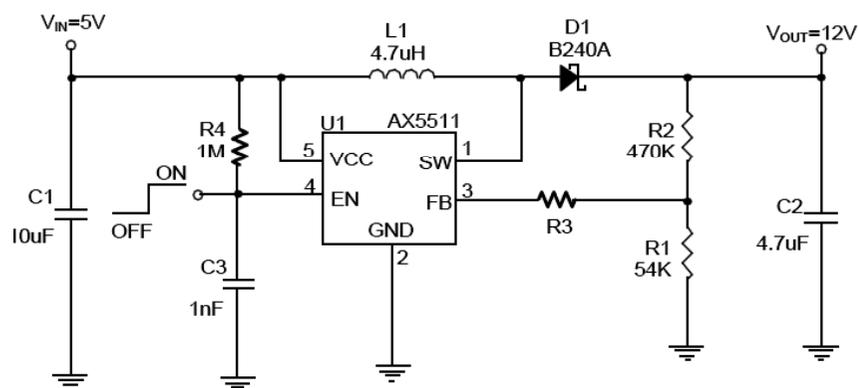
FEATURES

- 2.6V to 5.5V operating input voltage range
- Adjustable output voltage range up to 27V
- 1.2MHz Fixed Switching Frequency
- N-channel MOSFET Current Limit 1.9A When Duty=50%
- Internal soft-start function
- Current limit and Thermal shutdown protection
- Under voltage Lockout
- ≤ 1μA Shutdown Current

PIN DESCRIPTION

Name	Description
VCC	Input Supply Pin. Must be locally bypassed.
EN	Regulator On/Off Control Input. A high input at EN turns on the converter, and a low input turns it off. When not used, connect EN to the input source for automatic startup. The EN pin cannot be left floating.
FB	Feedback Input. FB voltage is 1.238V. Connect a resistor divider to FB.
GND	Ground.
SW	Power Switch Output. SW is the drain of the internal MOSFET switch. Connect the power inductor and output rectifier to SW. SW can swing between GND and 27V.

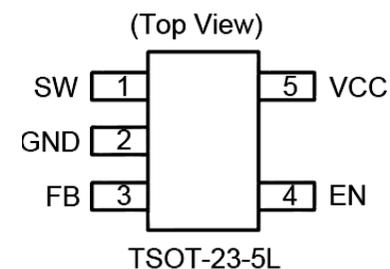
TYPICAL APPLICATION CIRCUIT



$$V_{OUT} = 1.238V \times \left(1 + \frac{R2}{R1}\right)$$

R2 Suggest 390K~820K

PACKAGE

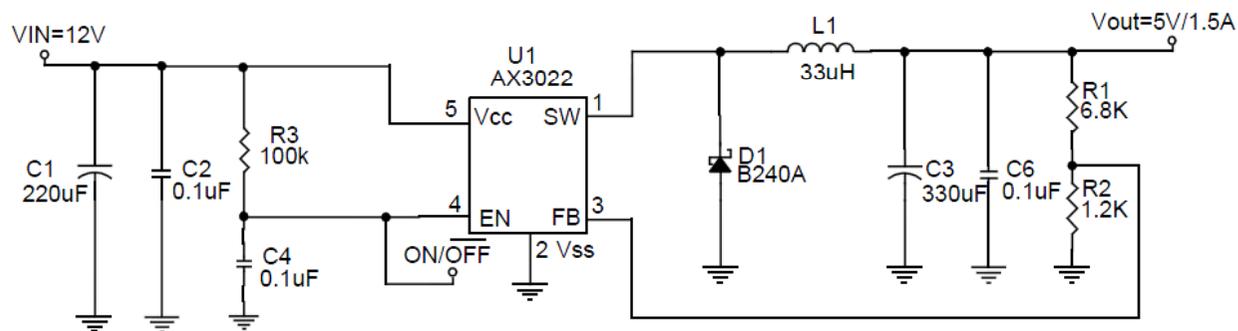


AX3022 200KHz, 1.5A PWM Buck DC/DC Converter

FEATURES

- Output voltage: adjustable output version.
- Adjustable version output voltage range: 0.75V to 22V+3%.
- 200KHz fixed switching frequency.
- Voltage mode non-synchronous PWM control.
- Thermal-shutdown and current-limit protection.
- ON/OFF shutdown control input.
- Short Circuit Protect (SCP).
- Operating voltage can be up to 24V.
- Output load current: 1.5A.

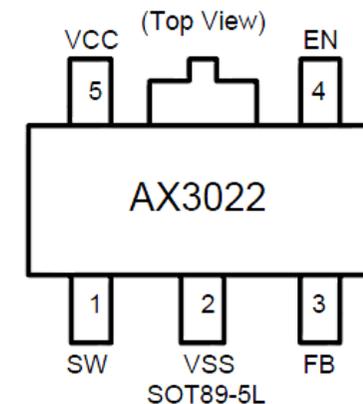
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
V _{CC}	Operating voltage input
SW	Switching output
FB	Output voltage feedback control
EN	ON/OFF Shutdown
V _{SS}	GND pin

PACKAGE



AX3007A 85KHz, 2A PWM Buck DC/DC Converter

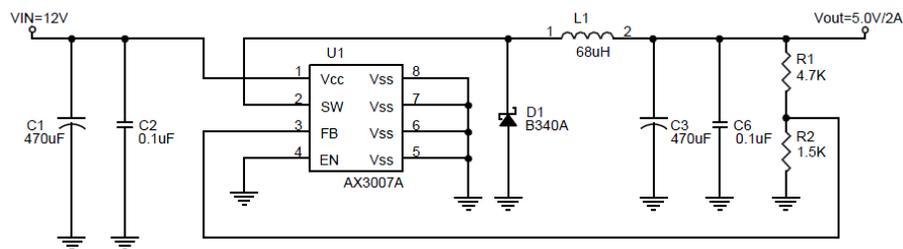
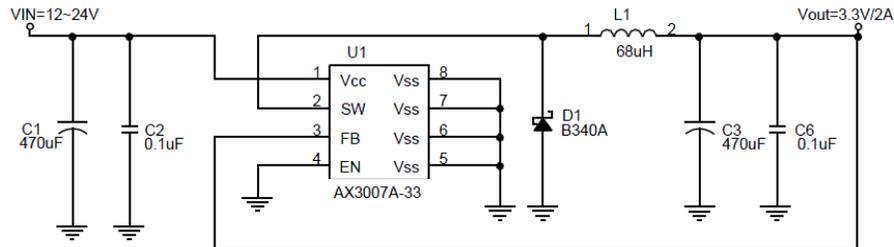
FEATURES

- Output voltage: 3.3V, 5V, 12V and adjustable output version.
- Adjustable version output voltage range, 1.23V to 38.5V.
- 85KHz fixed switching frequency.
- Voltage mode non-synchronous PWM control.
- Thermal-shutdown and current-limit protection.
- ON/OFF shutdown control input.
- Short Circuit Protect (SCP).
- Operating voltage can be up to 40V.
- Output load current: 2A.

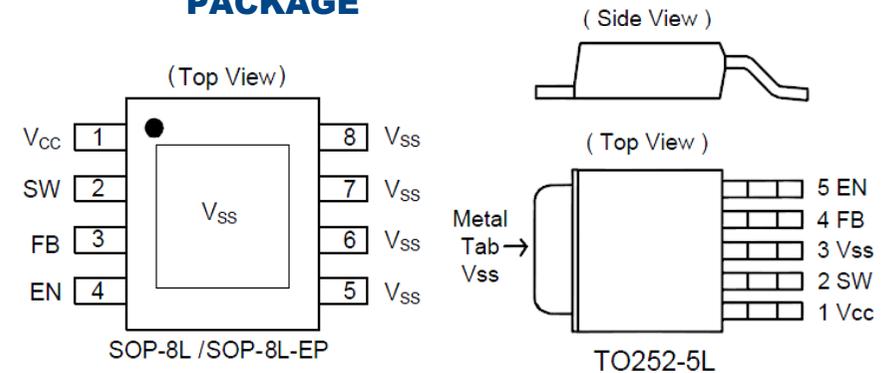
PIN DESCRIPTION

Name	Description
V _{CC}	Operating voltage input
SW	Switching output
FB	Output voltage feedback control
EN	ON/OFF Shutdown
V _{SS}	GND pin
V _{CC}	Operating voltage input

TYPICAL APPLICATION CIRCUIT



PACKAGE



AX3113 PWM Control 2A Step-Down Converter

FEATURES

Input voltage : 4V to 23V

Output voltage : 0.8V to Vcc

Duty ratio : 0% to 100% PWM control

Oscillation frequency : 330KHz typ.

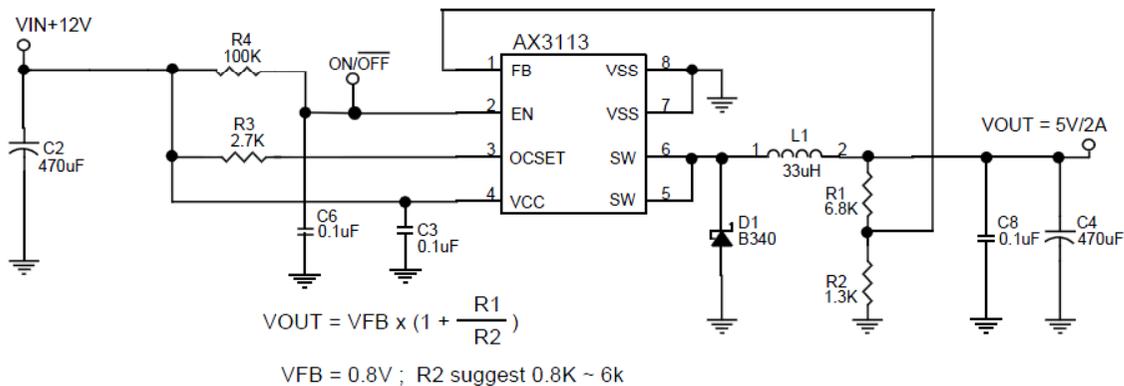
Current Limit(CL), Enable function.

Thermal Shutdown function.

Short Circuit Protect (SCP).

Built-in internal SW P-channel MOS.

TYPICAL APPLICATION CIRCUIT

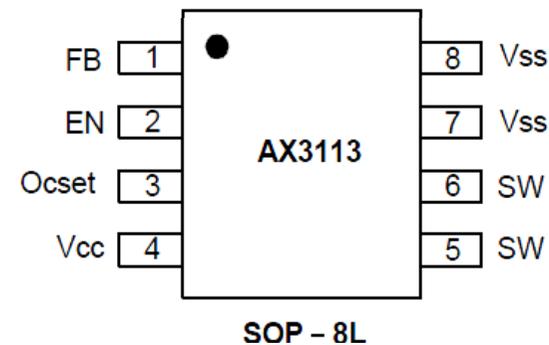


PIN DESCRIPTION

Name	Description
FB	Feedback pin
EN	Power-off pin H : normal operation(Step-down) L : Step-down operation stopped (All circuits deactivated)
OCSET	Add an external resistor to set max switch output current.
V _{CC}	IC power supply pin
SW	Switch pin. Connect external inductor & diode here.
V _{SS}	GND pin

PACKAGE

(Top View)



AX3112 PWM Control 3A Step-Down Converter

FEATURES

Input voltage : 8V to 40V

Adjustable version output voltage range from 3.3V to 38V

Duty ratio : 0% to 100% PWM control

Oscillation frequency : 100K/350 KHz

Enable and auto restart function.

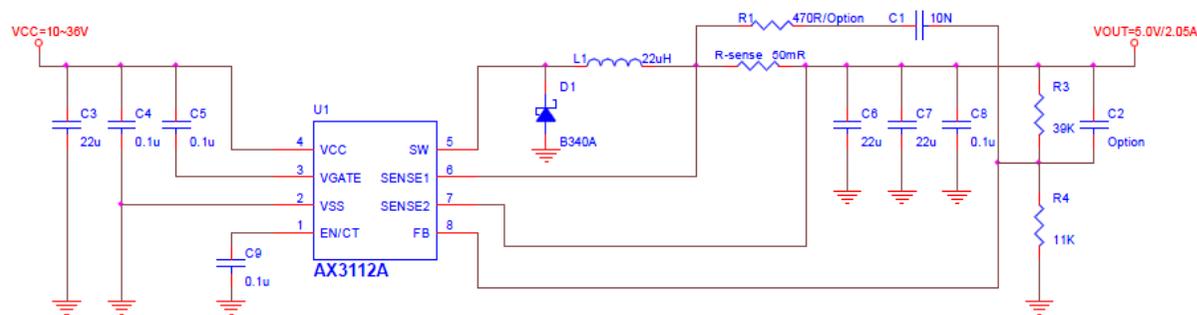
Thermal Shutdown function / Internal OVP.

Short Circuit Protect (SCP).

Built-in internal SW P-channel MOS.

SOP-8L-EP Pb-Free package.

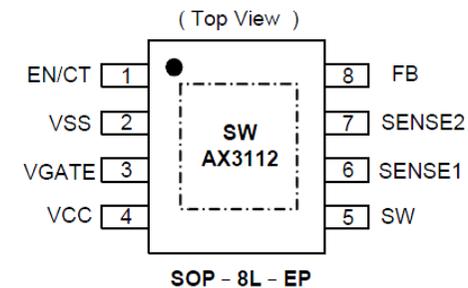
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
EN/CT	ON/OFF and auto restart control
VSS	GND pin
VGATE	Driver gate clamping pin. The pin must connect a 0.1uF capacitor to VCC
VCC	Operating voltage input
SW	Switch pin. Connect external inductor and diode here
SENSE1	Current sense input1
SENSE2	Current sense input2
FB	Feedback pin

PACKAGE

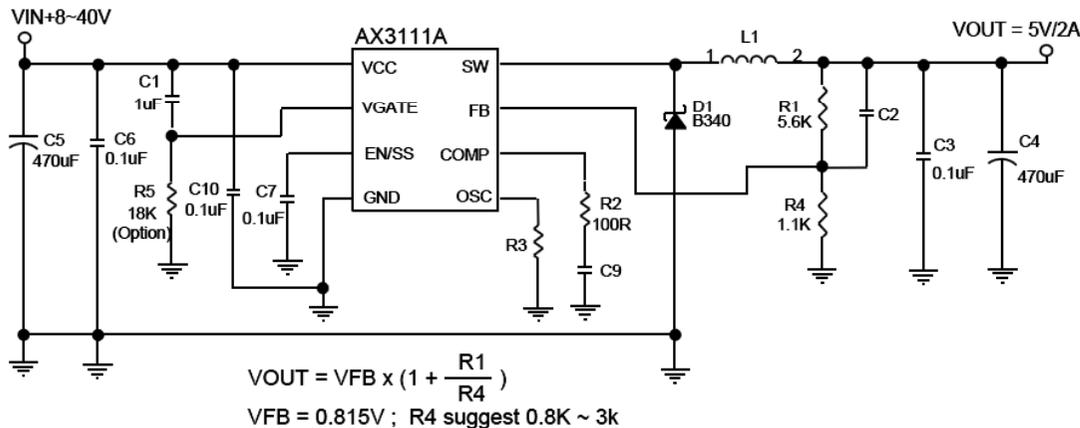


AX3111A PWM Control 2A Step-Down Converter

FEATURES

- Input voltage : 8V to 40V
- Output voltage : VFB to 38V
- Duty ratio : 0% to 100% PWM control
- Oscillation frequency range is
50K~350KHz by outside resistance setting
- Enable with Soft-Start function
- Current Limit, Short Circuit Protect (SCP)
- Thermal Shutdown protection
- Built-in internal SW P-channel MOS

TYPICAL APPLICATION CIRCUIT

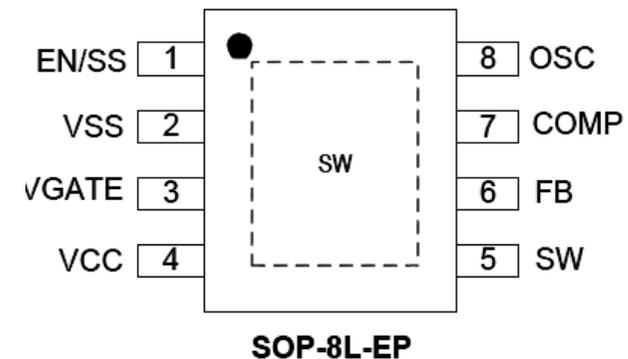


PIN DESCRIPTION

Name	Description
EN/SS	ON/OFF Shutdown and Soft-start pin
VSS	GND pin
VGATE	Driver GATE clamping pin. The pin must connect a 1uF capacitor to VCC
VCC	IC power supply pin
SW	Switch pin. Connect external inductor & diode here.
FB	Feedback pin
COMP	Compensation pin
OSC	Frequency Set Pin. The pin connect a resistance to GND.

PACKAGE

(Top View)

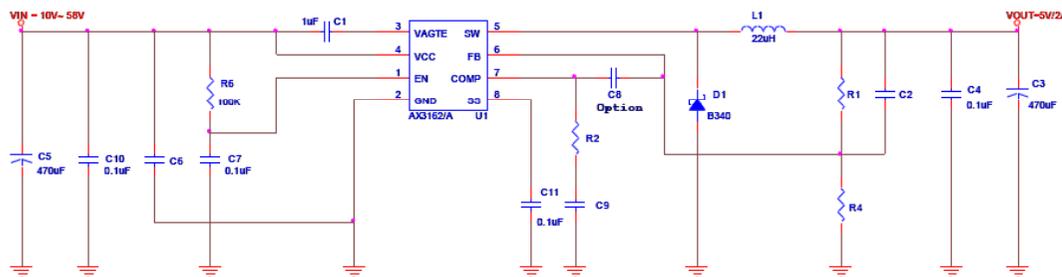


AX3162 PWM Control 2A Step-Down Converter

FEATURES

- Input voltage : 10V to 58V
- Output voltage : 3.3V to 56V
- Duty ratio : 0% to 100% PWM control
- Oscillation frequency : 120KHz typ.
- Enable and Soft-Start function
- Current Limit , Short Circuit Protect (SCP)
- Thermal Shutdown protection
- Built-in internal SW P-channel MOS.

TYPICAL APPLICATION CIRCUIT



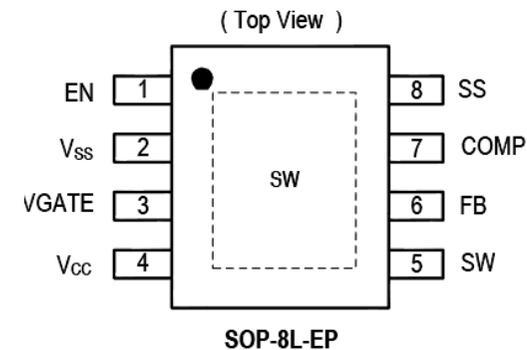
$$V_{OUT} = V_{FB} \times \left(1 + \frac{R1}{R4}\right)$$

$V_{FB} = 1.0V$; $R4$ suggest $0.8K \sim 3K$

PIN DESCRIPTION

Name	Description
EN	ON/OFF Shutdown pin
V _{SS}	GND pin
VGATE	Driver GATE clamping pin. The pin must connect a 1uF capacitor to VCC
V _{CC}	IC power supply pin
SW	Switch pin. Connect external inductor and diode here.
FB	Feedback pin
COMP	Compensation pin
SS	Soft-start pin

PACKAGE



AX3050/A 1.8A, Wide-Input Sensor less CC/CV Step-Down DC/DC Converter

FEATURES

Input Voltage : 8V to 36V

Vout Accuracy (VFB=1V) $\pm 2\%$

CC/CV mode(Constant Current and Constant Voltage)

Up to 1.8A output current

$\pm 3\%/\pm 5\%/10\%$ Current limit Accuracy

Duty ratio : 0% to 90% PWM control

Oscillation frequency : AX3050: 100KHz AX3050A: 250KHz

Short Circuit Protect (SCP).

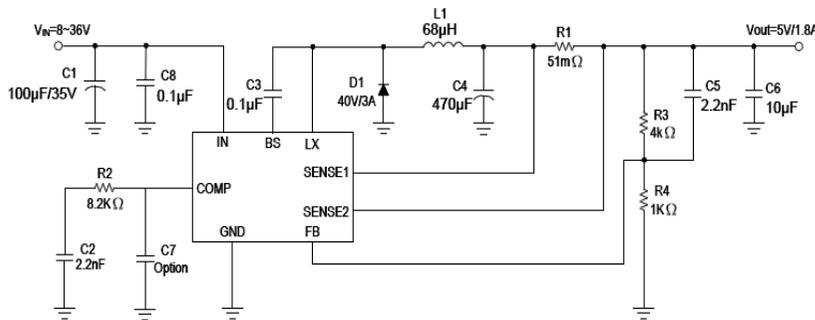
External current limit setting.

Over Voltage Protection 5.8V.

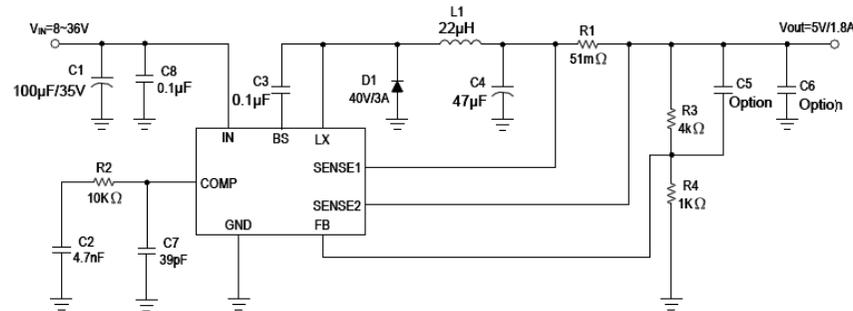
Built in adjustable line-compensation.

TYPICAL APPLICATION CIRCUIT

(1) Frequency=100KHz



(2) Frequency=250KHz

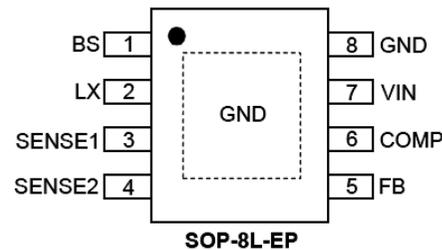


PIN DESCRIPTION

Name	Description
BS	Bootstrap Pin. This provides power to the internal high-side MOSFET gate driver. Connect a 0.1uF capacitor from BS pin to LX pin.
LX	Power Switching Output to External Inductor.
SENSE1	Current Sense input1
SENSE2	Current Sense input2
FB	Output voltage feedback control
COMP	Error Amplifier Output. This pin is used to compensate the converter.
VIN	Power Supply Input. Bypass this pin with a 0.1uF ceramic capacitor to GND, placed as close to the IC as possible.
GND	GND pin

PACKAGE

(Top View)



AX3051/A 2.8A, Wide-Input Sensorless CC/CV Step-Down DC/DC Converter

FEATURES

Input Voltage : 8V to 36V

Vout Accuracy (VFB=1V) $\pm 2\%$

CC/CV mode(Constant Current and Constant Voltage)

Up to 2.8A output current

$\pm 3\%/\pm 5\%/15\%$ Current limit Accuracy

Duty ratio : 0% to 90% PWM control

Oscillation frequency : AX3051: 100KHz AX3051A: 250KHz

Short Circuit Protect (SCP).

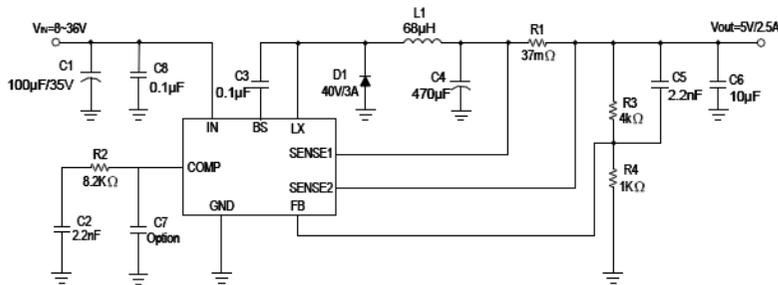
External current limit setting.

Over Voltage Protection 5.8V.

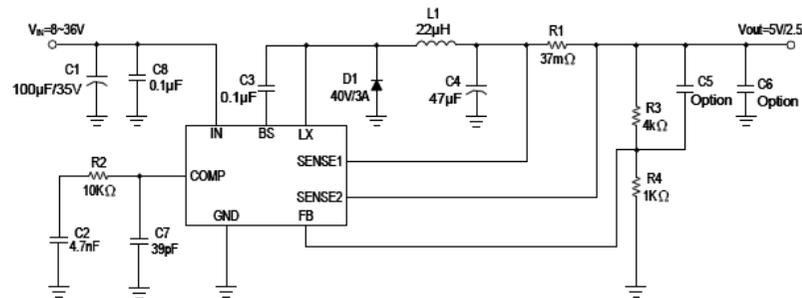
Built inadjustable line-compensation.

TYPICAL APPLICATION CIRCUIT

(1) Frequency=100KHz



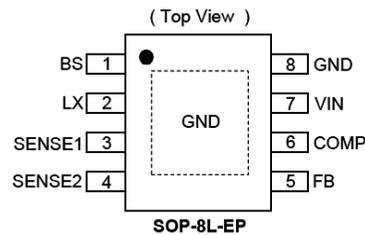
(2) Frequency=250KHz



PIN DESCRIPTION

Name	Description
BS	Bootstrap Pin. This provides power to the internal high-side MOSFET gate driver. Connect a 0.1µF capacitor from BS pin to LX pin.
LX	Power Switching Output to External Inductor.
SENSE1	Current Sense input1
SENSE2	Current Sense input2
FB	Output voltage feedback control
COMP	Error Amplifier Output. This pin is used to compensate the converter.
VIN	Power Supply Input. Bypass this pin with a 0.1µF ceramic capacitor to GND, placed as close to the IC as possible.
GND	GND pin

PACKAGE

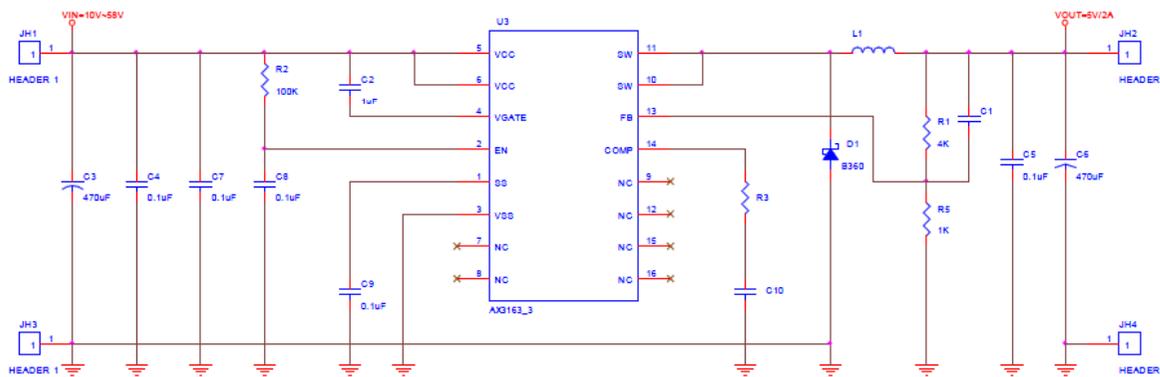


AX3163 PWM Control 3A Step-Down Converter

FEATURES

- Input voltage : 10.8V to 58V
- Output voltage : 3.3V to 56V
- Duty ratio : 0% to 100% PWM control
- Enable and Soft-Start function
- Current Limit, Short Circuit Protect (SCP)
- Thermal Shutdown protection
- Built-in internal SW P-channel MOS.
- SOP-16L-EP Pb-Free package.

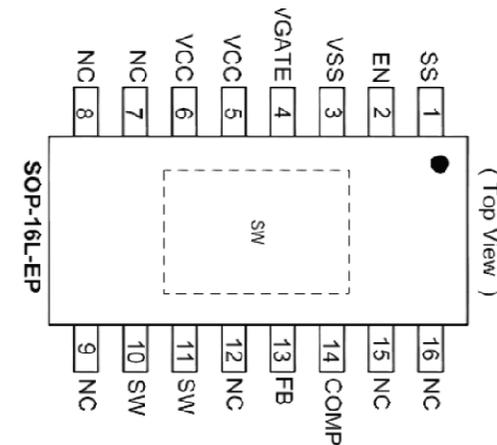
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
SS	Soft-start pin
EN	ON/OFF Shutdown pin
VSS	GND pin
VGATE	Driver GATE clamping pin. The pin must connect a 1uF capacitor to VCC
VCC	IC power supply pin
SW	Switch pin. Connect external inductor and diode here.
FB	Feedback pin
COMP	Compensation pin
NC	No Connection

PACKAGE



AX3108 PWM Control 3A Step-Down Converter

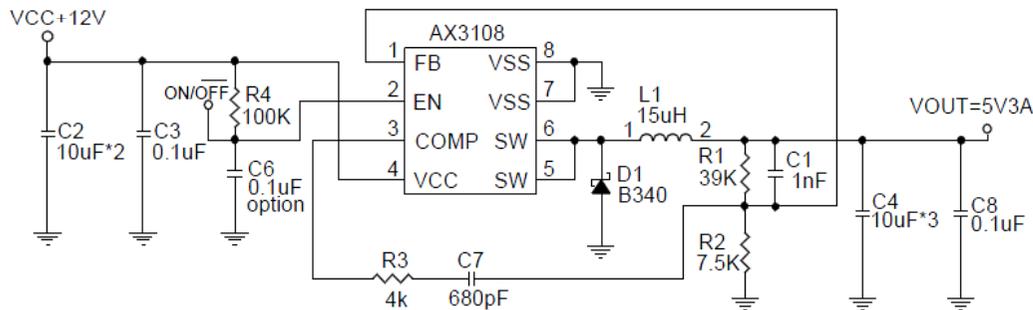
FEATURES

- Input voltage : 3.6V to 20V
- Output voltage : 0.8V to VCC
- Duty ratio : 0% to 100% PWM control
- Oscillation frequency : 330KHz typ.
- Soft-start(SS), Current Limit(CL), Enable function.
- Thermal Shutdown function.
- Short Circuit Protect (SCP).
- Built-in internal SW P-channel MOS.
- Low ESR output capacitor
(Multi-layer chip capacitor (MLCC)) application.

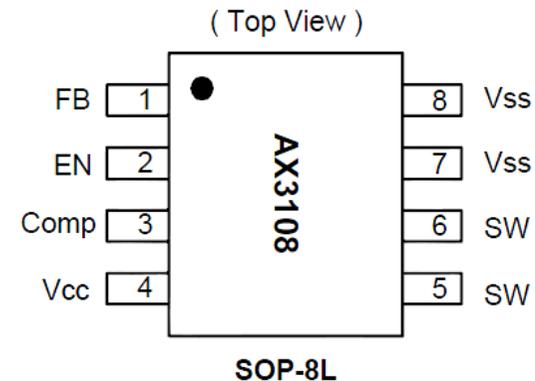
PIN DESCRIPTION

Name	Description
FB	Feedback pin
EN	Power-off pin H : normal operation(Step-down) L : Step-down operation stopped (All circuits deactivated)
Comp	Compensation pin
V _{CC}	IC power supply pin
SW	Switch pin. Connect external inductor/diode here.
V _{SS}	GND pin

TYPICAL APPLICATION CIRCUIT



PACKAGE

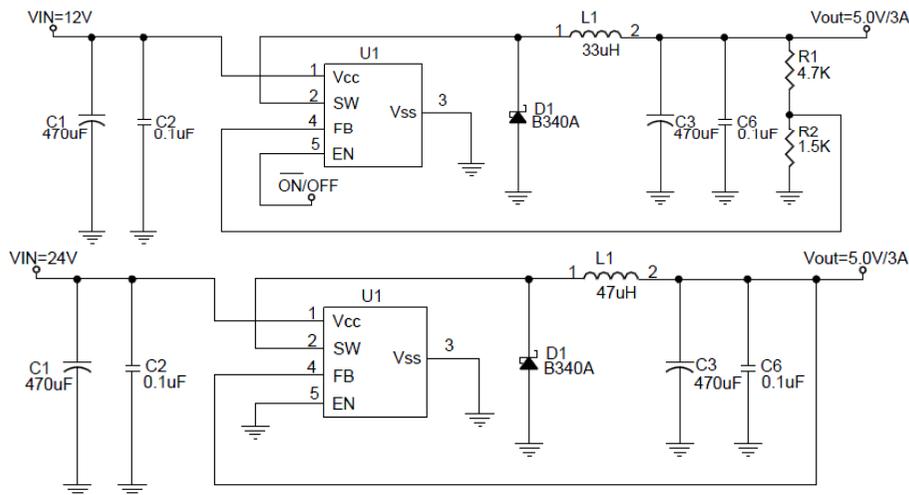


AX3005 150KHz, 3A PWM Buck DC/DC Converter

FEATURES

- Output voltage: 3.3V, 5V, 12V and adjustable output version.
- Adjustable version output voltage range, 1.23V to 38.5V.
- 150KHz fixed switching frequency.
- Voltage mode non-synchronous PWM control.
- Thermal-shutdown and current-limit protection.
- ON/OFF shutdown control input.
- Short Circuit Protect (SCP).
- Operating voltage can be up to 40V.
- Output load current: 3A.
- Low power standby mode

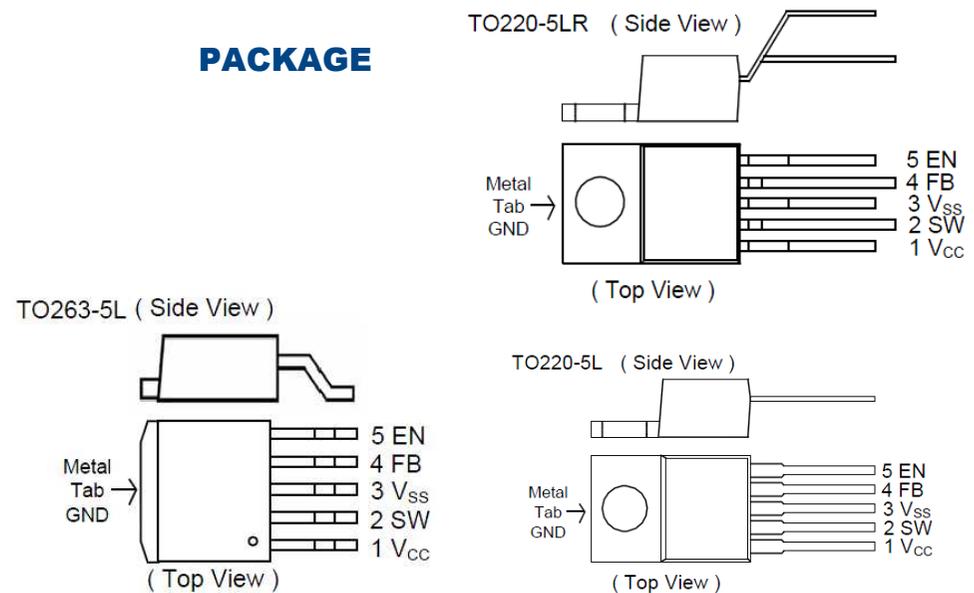
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
V _{CC}	Operating voltage input
SW	Switching output
V _{SS}	GND pin
FB	Output voltage feedback control
EN	ON/OFF Shutdown

PACKAGE

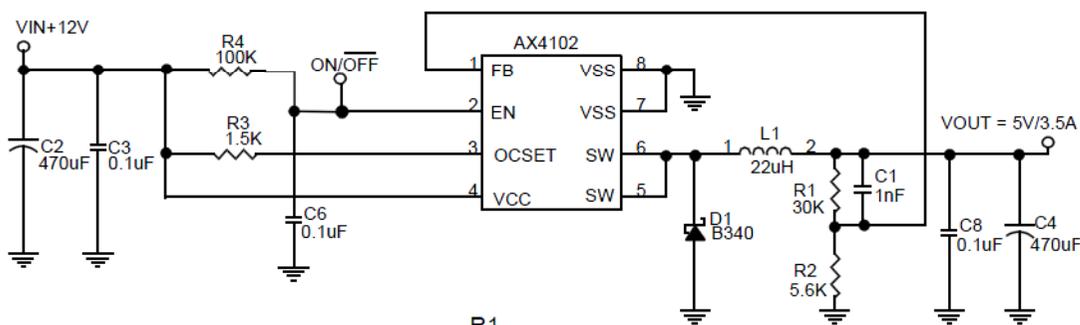


AX4102 PWM Control 3.5A Step-Down Converter

FEATURES

- Input voltage : 3.6V to 23V
- Output voltage : 0.8V to VCC
- Duty ratio : 0% to 100% PWM control
- Oscillation frequency : 330KHz typ.
- Current Limit (CL), Enable function.
- Thermal Shutdown function.
- Short Circuit Protect (SCP).
- Built-in internal SW P-channel MOS.

TYPICAL APPLICATION CIRCUIT



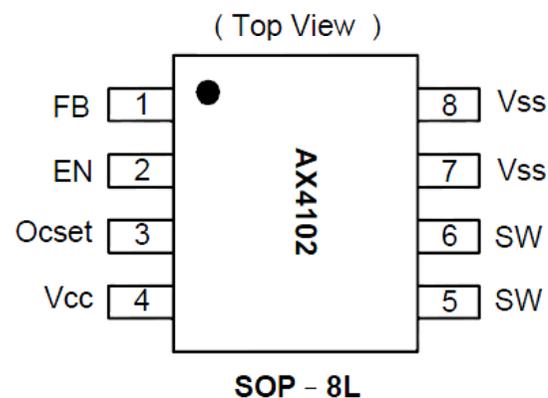
$$V_{OUT} = V_{FB} \times \left(1 + \frac{R1}{R2}\right)$$

$$V_{FB} = 0.8V ; R2 \text{ suggest } 0.8K \sim 6k$$

PIN DESCRIPTION

Name	Description
FB	Feedback pin
EN	Power-off pin H : normal operation(Step-down) L : Step-down operation stopped (All circuits deactivated)
OCSET	Add an external resistor to set max switch output current.
V _{CC}	IC power supply pin
SW	Switch pin. Connect external inductor & diode here.
V _{SS}	GND pin

PACKAGE

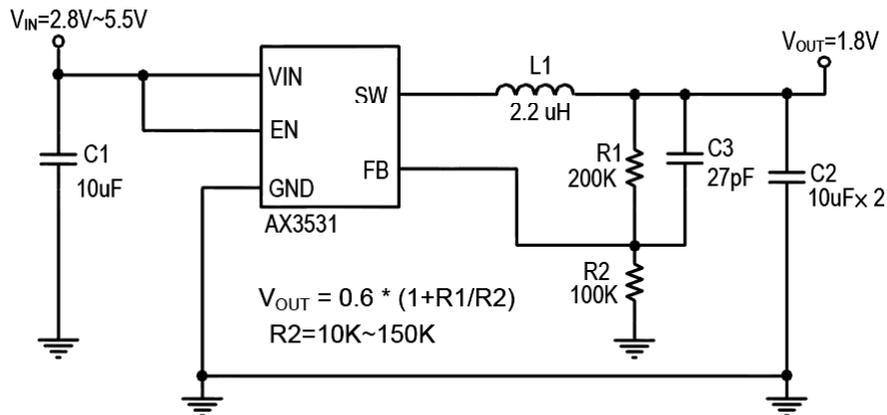


AX3531 1.25MHz,2A Synchronous Step-Down Converter

FEATURES

- 2.8V to 5.5V Input Voltage Range
- Output Voltage from 0.6V to VIN
- High Efficiency: Up to 96%
- 1.25MHz Constant Frequency Operation
- Up to 2A Output Current
- Quiescent Current: 200uA (Typical)
- No Schottky Diode Required
- Current limit, Enable function
- Short Circuit Protect (SCP)
- Build in soft start function

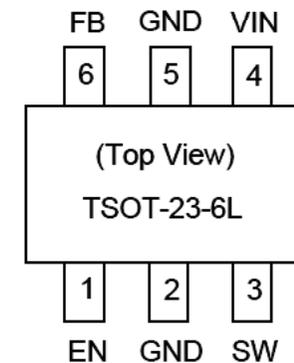
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
EN	Enable pin H : normal operation L : Shutdown
VIN	Power Supply Input Pin
SW	Switch output pin. Connect external inductor here. Minimize trace area at this pin to reduce EMI.
GND	Ground Pin
FB	Output Feedback pin

PACKAGE



AX3516 1.2MHz, 2.5A Synchronous Step-Down Converter

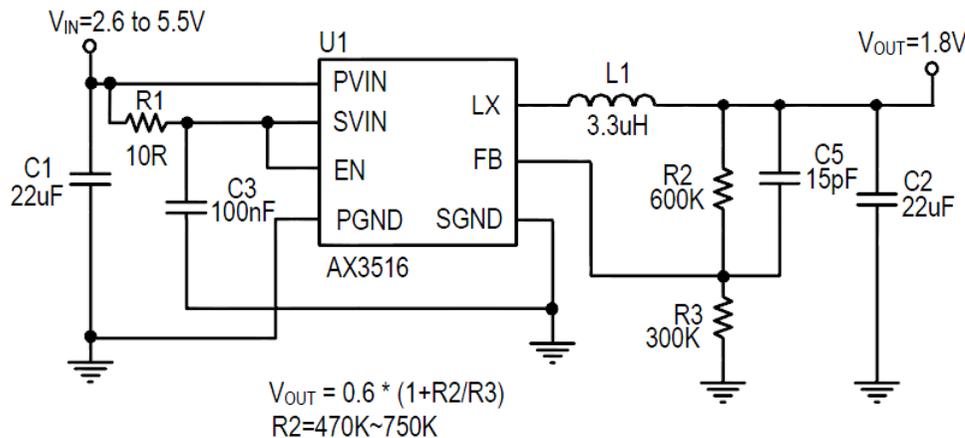
FEATURES

- 2.6V to 5.5V Input Voltage Range
- Output Voltages from 0.6V to VIN
- High Efficiency: Up to 94%
- 1.2MHz Constant Frequency Operation
- Up to 2.5A Output Current for VIN=2.6V~4V
- Up to 3A Output Current for VIN=4V~5.5V
- Current limit, Enable function
- Short Circuit Protect (SCP) Build-in Soft Start function

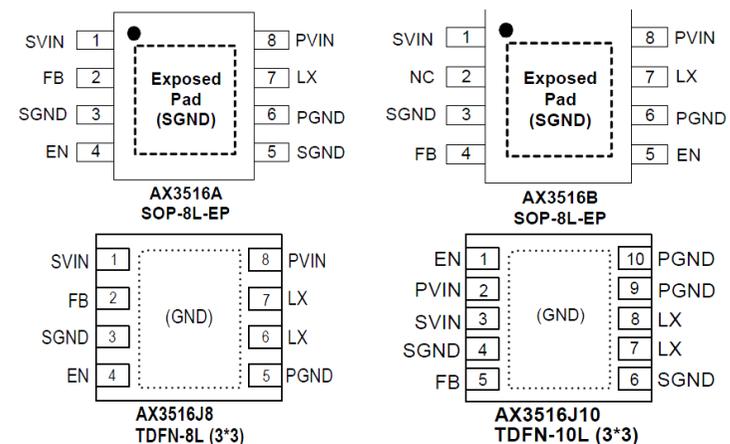
PIN DESCRIPTION

Name	Description
EN	Enable pin H : normal operation L : Shutdown
PVIN	Power Supply Input Pin
SVIN	Signal Supply Input Pin
LX	Switch output pin. Connect external inductor here. Minimize trace area at this pin to reduce EMI.
SGND	Signal Ground Pin
PGND	Power Ground Pin
FB	Output Feedback pin

TYPICAL APPLICATION CIRCUIT



PACKAGE



***Low Dropout Linear Regulator
Microprocessor Reset Circuits
Dual Operational Amplifiers***

AX6601 300mA Low Dropout (LDO) Linear Regulator

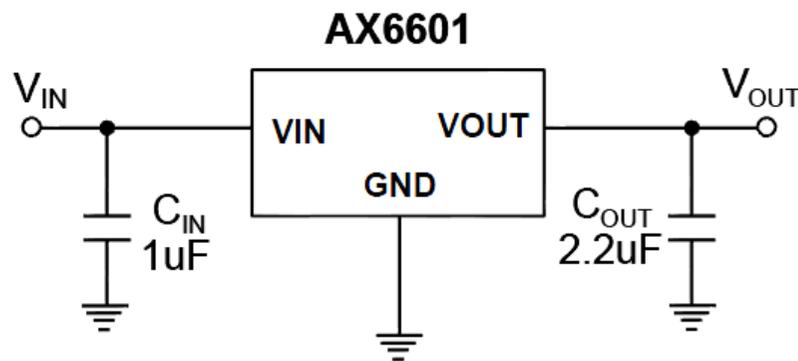
FEATURES

- Input voltage range is up to 6V
- Dropout voltage 200mV at 150mA output current
- Guaranteed 300mA output current
- Low quiescent current 90 μ A(typ.)
- Fixed Output voltage is 1.5V, 1.8V, 2.5V, 2.8V, 3.0V and 3.3V.
- Fast transient response
- Current limit, short-circuit protection
- Thermal shutdown protection

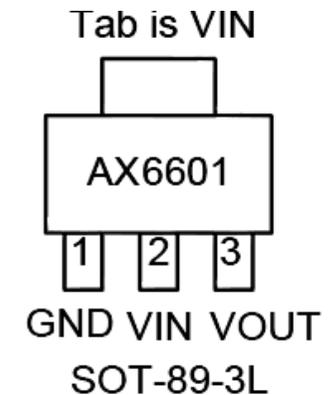
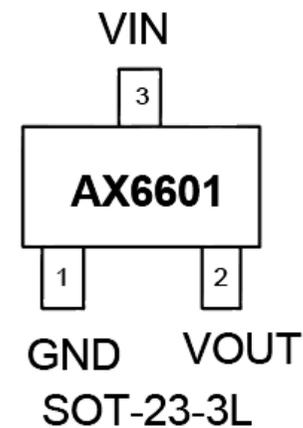
PIN DESCRIPTION

Name	Description
GND	Ground
VIN	Voltage input
VOUT	Output Voltage

TYPICAL APPLICATION CIRCUIT



PACKAGE



AX6603 300mA High PSRR, Low Noise LDO Regulator

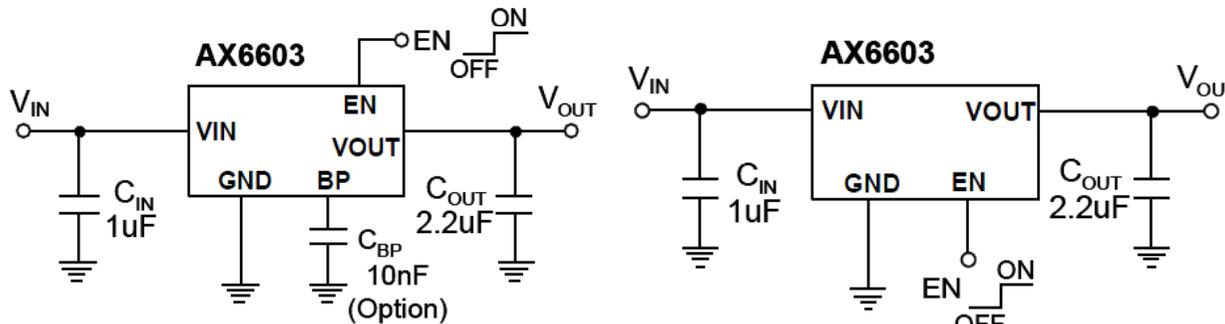
FEATURES

- Input voltage range :2.6V~6.0V
- Dropout voltage is 200mV at 150mA output current
- Guaranteed 300mA output current
- Low quiescent current is 90μA(typ.)
- Maximum supply current in shutdown mode <1uA
- Fixed Output voltage is form 1.0V to 5V by 0.1V steps.
- High PSRR=70dB@120Hz, 65dB@1KHz
- Fast transient response
- Current limit and thermal shutdown protection
- Short circuit current fold-back

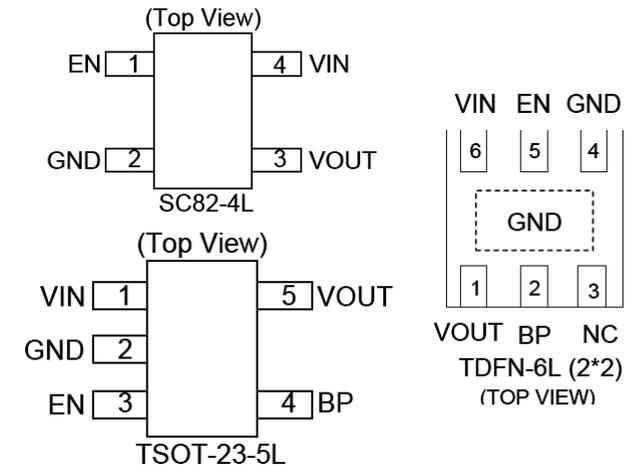
PIN DESCRIPTION

Name	Description
VIN	Voltage input
GND	Ground
EN	Enable pin
BP	Bandgap
VOUT	Output Voltage
NC	No Connect

TYPICAL APPLICATION CIRCUIT



PACKAGE



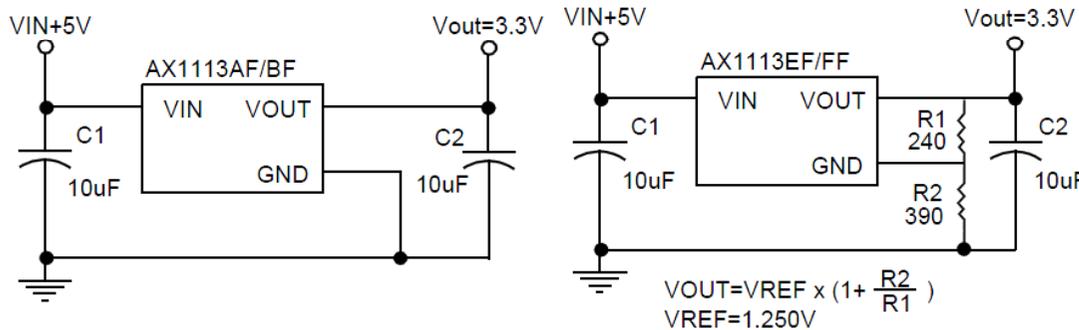
AX1113 400mA Low Dropout Linear Regulator

FEATURES

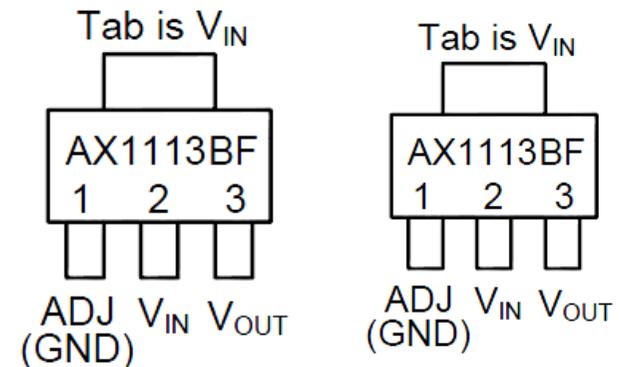
- 3-Terminal Adjustable or Fixed 1.8V, 3.3, 5.0V
- Fast transient response
- Output current limiting
- Built-in thermal shutdown
- Good noise rejection
- Packages: SOT89-3L

PIN DESCRIPTION	
Name	Description
ADJ (GND)	A resistor divider from this pin to the V _{OUT} pin and ground sets the output voltage. (Ground only for Fixed-Mode)
V _{OUT}	The output of the regulator. A minimum of 10uF capacitor (0.15Ω ≤ ESR ≤ 20Ω) must be connected from this pin to ground to insure stability.
V _{IN}	The input pin of regulator. Typically a large storage capacitor (0.15Ω ≤ ESR ≤ 20Ω) is connected from this pin to ground to insure that the input voltage does not sag below the minimum dropout voltage during the load transient response. This pin must always be 1.2V higher than V _{OUT} in order for the device to regulate properly.

TYPICAL APPLICATION CIRCUIT



PACKAGE

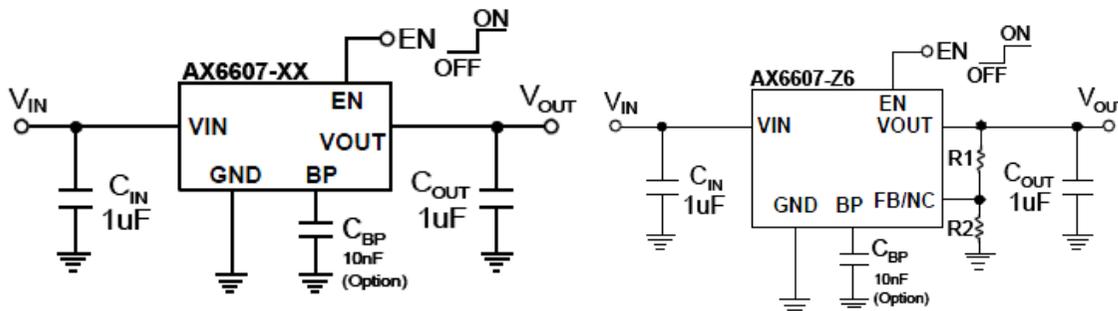


AX6607 600mA LDO Linear Regulator with Shutdown

FEATURES

- Input voltage range :2.6V~5.5V
- Adjustable and 1.5/1.8/2.5/2.6/2.7/2.8/3.0/3.3V fixed output voltages
- VOUT adjust range from VFB to 5.0V
- Guaranteed 600mA output current
- Very Low quiescent current at50μA(typ.)
- Needs Only 1μF capacitor for Stability
- Maximum supply current in shutdown mode <2μA
- Current limit and thermal shutdown protection
- Short circuit current fold-back

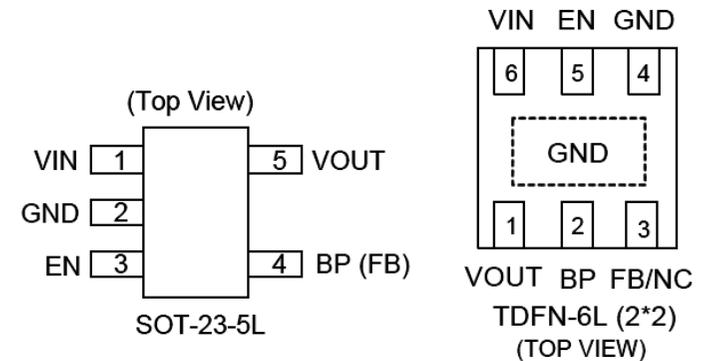
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
VIN	Voltage input. The input capacitor in the range of 1μF to 10μF is sufficient.
GND	Ground
EN	Enable pin (Active High)
BP	Reference Noise Bypass (The Bypass capacitor $\geq 1nF$)
VOUT	Output Voltage, The AX6607 is stable with an output capacitor 1μF for greater.
FB/NC	For adjustable output voltage version only, the pin connects two resistances to decide output voltage. When use fixed output voltage version, this pin is NC pin.

PACKAGE

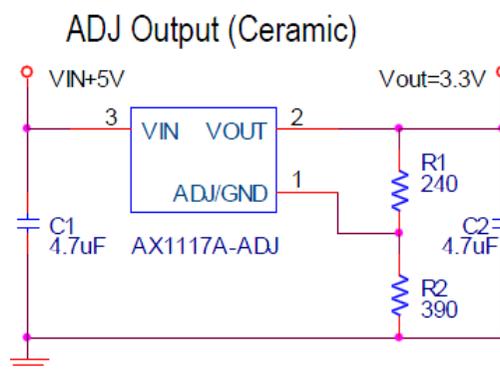
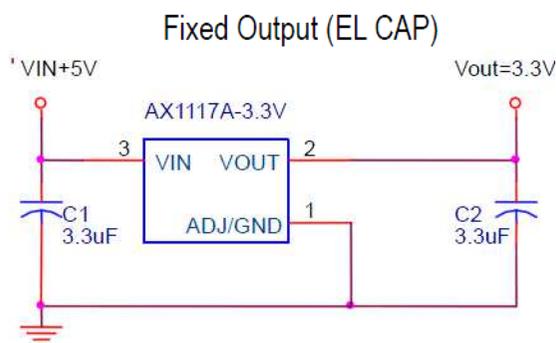


AX1117A 1A Low Dropout Linear Regulator

FEATURES

- 1.5V maximum dropout at full load current
- Fast transient response
- Output current limiting
- Built-in thermal shutdown
- Good noise rejection
- Low-ESR Ceramic Capacitor (MLCC) Required for Stability.
- 3-Terminal Adjustable or Fixed 1.5V, 1.8V, 2.5V, 3.3V, 5.0V
- Packages: SOT223, TO252.

TYPICAL APPLICATION CIRCUIT

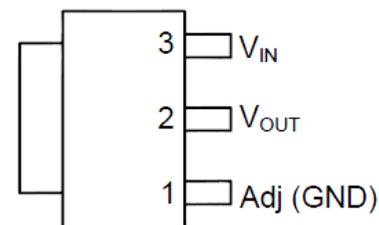


PIN DESCRIPTION

Name	Description
Adj (GND)	A resistor divider from this pin to the V_{OUT} pin and ground sets the output voltage. (Ground only for Fixed-Mode)
V_{OUT}	The output of the regulator. A minimum of 3.3uF EL capacitor ($10m\Omega \leq ESR \leq 1\Omega$) must be connected from this pin to ground to insure stability. (Note)
V_{IN}	The input pin of regulator. Typically a large storage capacitor is connected from this pin to ground to insure that the input voltage does not sag below the minimum dropout voltage during the load transient response. This pin must always be 1.5V higher than V_{OUT} in order for the device to regulate properly. (Note)

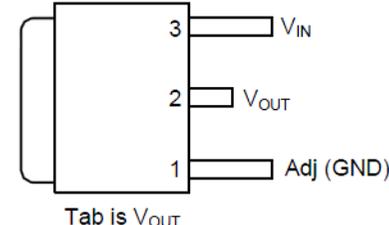
PACKAGE

SOT223
(Top View)



Tab is V_{OUT}

TO252
(Top View)

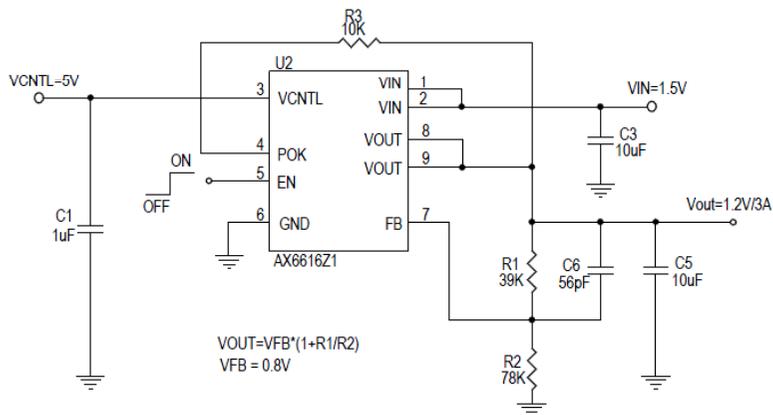


AX6616 3A Ultra Low Dropout Linear Regulator

FEATURES

- Ultra Low Dropout - 0.23V(typical) at 3A Output Current
- Low ESR Output Capacitor
(Multi-layer Chip Capacitors (MLCC)) Applicable
- 0.8V Reference Voltage
- Fast Transient Response
- Adjustable Output Voltage by External Resistors
- Power-On-Reset Monitoring on Both VCNTL and VIN Pins
- Internal Soft-Start
- Under-Voltage Protection
- Current-Limit and Thermal Shutdown Protection
- Power-OK Output with a Delay Time

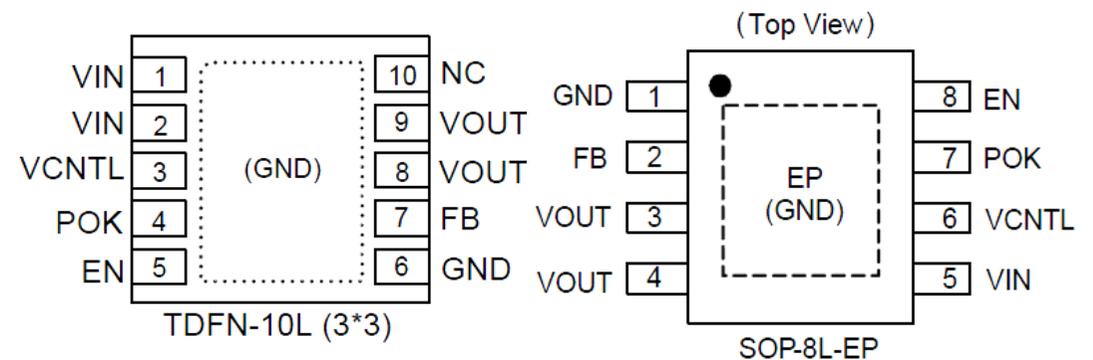
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
GND	GND pin
FB	Feedback pin
VOUT	Output voltage supply pin
EN	Internal Pull High. EN=high or Floating → Enable EN=Low → Shutdown mode
POK	Power OK Output Pin
VCNTL	CNTL Pin Input Voltage
VIN	Input Voltage
EP	Connect to GND

PACKAGE

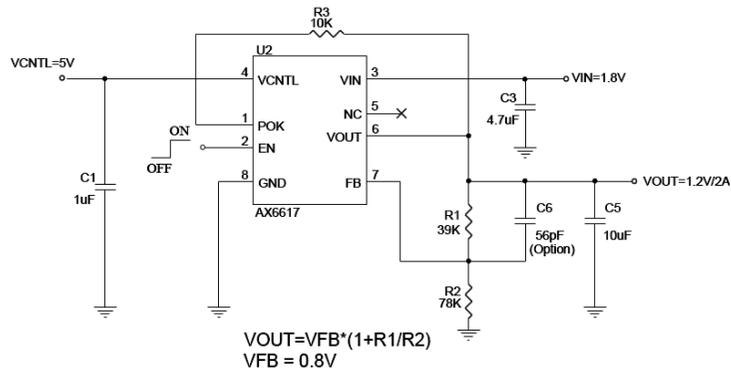


AX6617 3A Ultra Low Dropout Linear Regulator

FEATURES

- Ultra Low Dropout 0.23V(typical)
- @ 2A Output Current for 1.2V output Voltage
- EN internal pull-low for AX6617A
- EN internal pull-high for AX6617B
- Fast Transient Response
- Adjustable Output Voltage by External Resistors
- Power-On-Reset Monitoring on Both VCNTL and VIN Pins
- Internal Soft-Start
- Under-Voltage Protection
- Current-Limit and Thermal Shutdown Protection
- Power-OK Output with a Delay Time

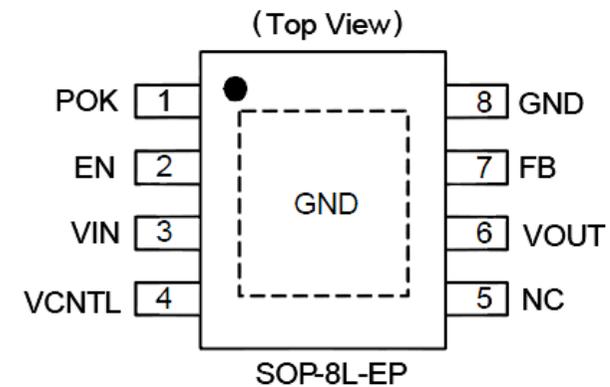
TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Name	Description
GND	GND pin
FB	Feedback pin
V_{OUT}	Output pin
EN	Internal Pull High (AX6617B) or Pull Low (AX6617A) EN=high → Enable EN=Low → Shutdown mode
POK	Power OK Output Pin
VCNTL	CNTL Pin Input Voltage
VIN	Input Voltage
NC	No connect

PACKAGE



AX1084 5A Low Dropout Linear Regulator

FEATURES

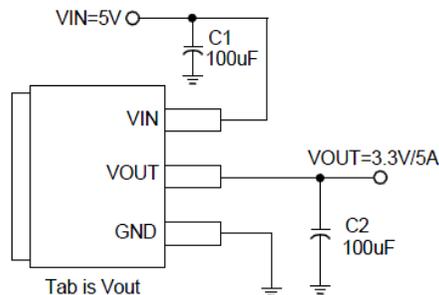
- 1.5V maximum dropout at full load current
- Built-in thermal shutdown
- Output current limiting
- Adjustable and 1.5V/1.8V/2.5V/3.3V/5.0V fixed output voltages
- Fast transient response
- Good noise rejection
- Package: TO252-3L, TO263-2L, TO220-3L

PIN DESCRIPTION

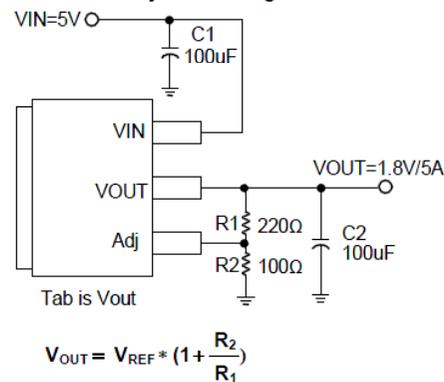
Name	Pin No.	Description
	TO263/252/220	
Adj (GND)	1	Adjustable (Ground only for fixed version) A resistor divider from this pin to the V _{OUT} pin and ground sets the output voltage.
VOUT	2	The output of the regulator. A minimum of 100uF (0.15Ω ≤ ESR ≤ 10Ω) capacitor must be connected from this pin to ground to insure stability.
VIN	3	The input pin of regulator. Typically a large storage capacitor (0.15Ω ≤ ESR ≤ 10Ω) is connected from this pin to ground to insure that the input voltage does not sag below the minimum dropout voltage during the load transient response. This pin must always be 1.4V higher than V _{OUT} in order for the device to regulate properly.

TYPICAL APPLICATION CIRCUIT

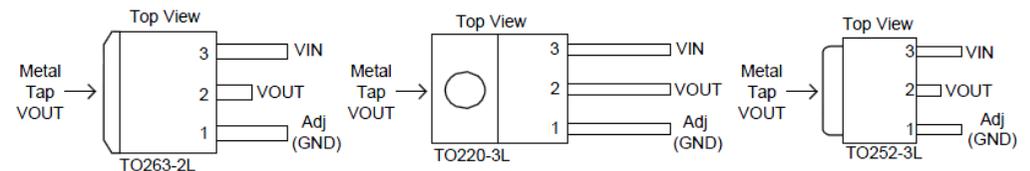
5.0V to 3.3V Fixed Mode Regulator



Adjustable Regulator



PACKAGE



AX6901/2/3/4 3-Pin Microprocessor Reset Circuits

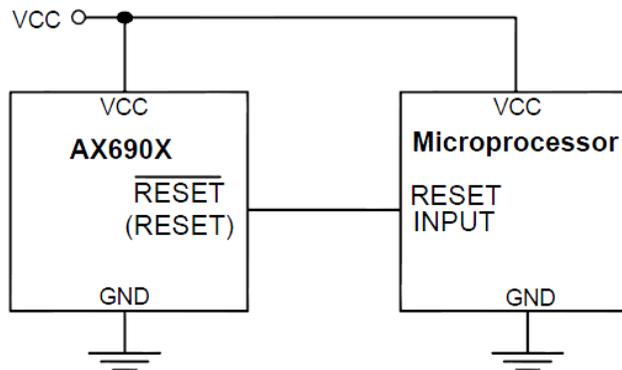
FEATURES

- Precision Monitoring of +2.5,+3V, +3.3V, and +5V Power-Supply Voltages
- Fully Specified Over Temperature
- Available in Three Output Configurations
- Push-Pull RESET Low Output(AX6901/3)
- Push-Pull RESET High Output(AX6902/4)
- 200ms (Typ.)min Power-On Reset Pulse Width
- 25μA Supply Current
- Guaranteed Reset Valid to VCC = +1.0V
- Power Supply Transient Immunity
- No External Components

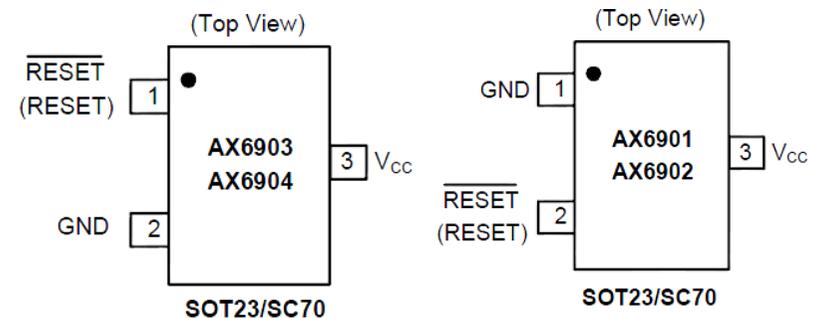
PIN DESCRIPTION

Name	Description
GND	Ground
$\overline{\text{RESET}}$ (RESET)	Reset output pin L: forAX6901/3 H: forAX6902/4
V _{CC}	Operating voltage input

TYPICAL APPLICATION CIRCUIT



PACKAGE

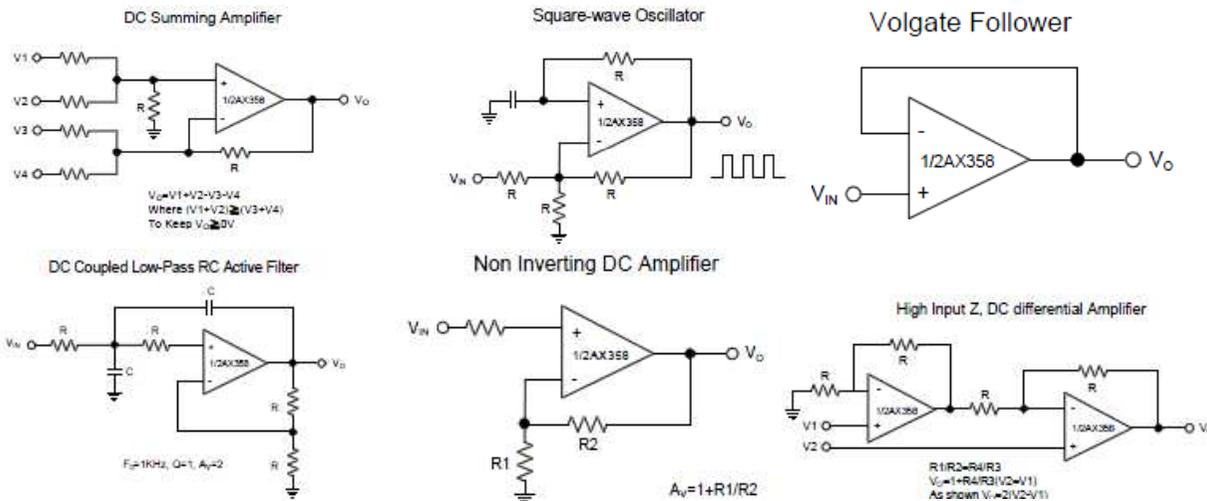


AX358 Dual Operational Amplifiers

FEATURES

- Two internally compensated OP amps
- Wide power supply range: 3V to 40V
- Large output voltage swing: 0V to $V_{CC}-1.5V$
- Low input bias current
- Low input offset voltage and offset current
- Internally frequency compensated for unity gain
- Short Circuit Protected Outputs
- Input common-mode voltage range includes ground

TYPICAL APPLICATION CIRCUIT



PIN DESCRIPTION

Pin	Description
1	Output 1 (V_{O1})
2	Inverting input 1 (IN1-)
3	Non inverting input 1 (IN1+)
4	VSS
5	Non inverting input 2 (IN2+)
6	Inverting input 2 (IN2-)
7	Output 2 (V_{O2})
8	VCC

PACKAGE

