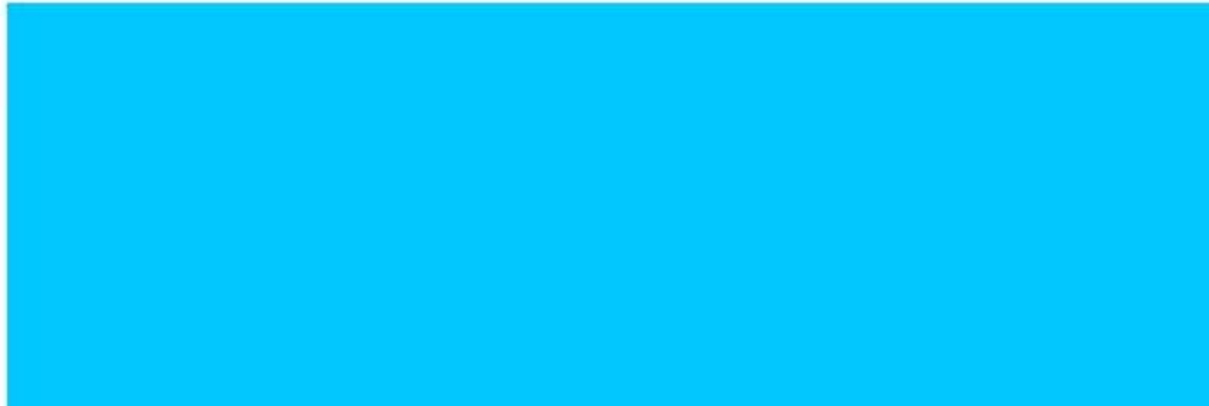
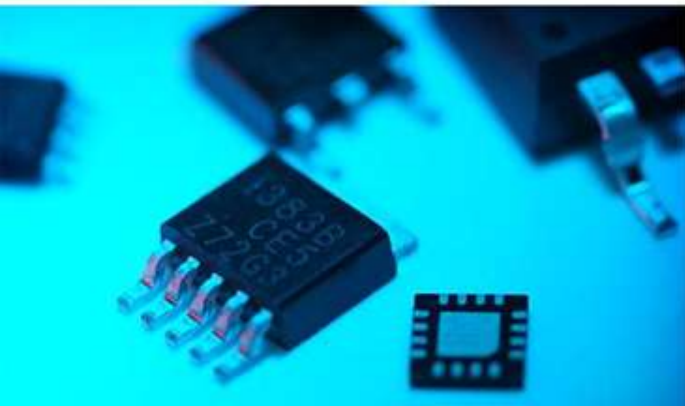




AIC Power Solutions Overview



PRODUCT PORTFOLIO



● Power Conversion

- Linear Voltage Regulator
- DC/DC Converter ★★★★★
- White-LED Driver
- LED Lighting Driver ★★★

● Power Manipulation

- Supervisory
- Battery Management
- Power Switch ★★
- High Current Driver



POWER CONVERSION



Linear Voltage Regulator

- Low Dropout Linear Regulator
- Ultra Low Dropout Linear Regulator
- Negative Voltage Regulator
- Voltage Reference
- DDR Regulator
- Fan Control Driver

DC/DC Converter

- Step - Up
- Inverting
- Charge - Pump
- Step - Down
- Multiple Output

White-LED Driver

- Charge - Pump
- Boost Converter
- Buck Converter
- Constant Current Switcher

LED Lighting Solution

- Off - Line Linear
- Step - Down
- AC/DC

POWER MANIPULATION



Supervisory

- Microprocessor Reset Circuits
- Reset Circuits with Manual Reset Input

Battery Management

- NiMH/NiCd Charger
- Li-Ion Charger
- Li-ion Protection

Power Switch

- Universal Power Switch
- USB Power Switch

Others

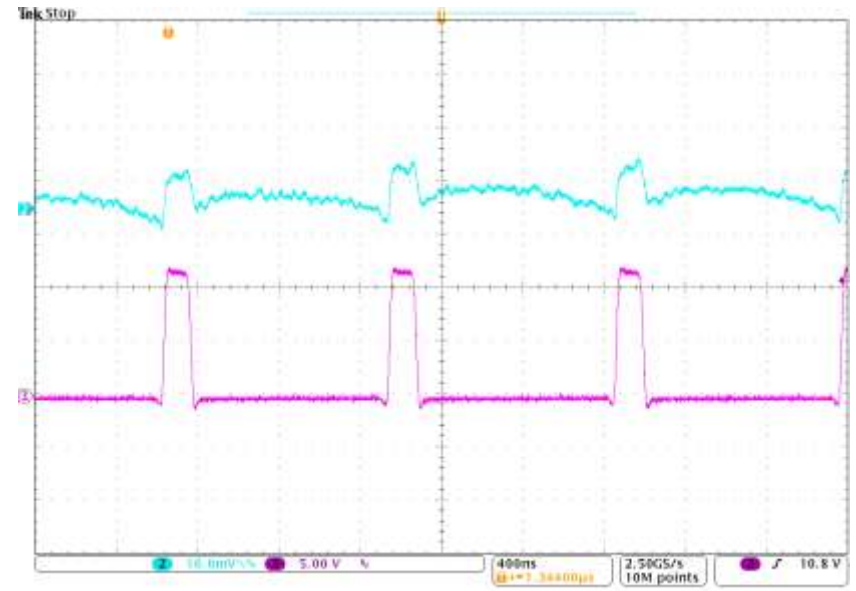
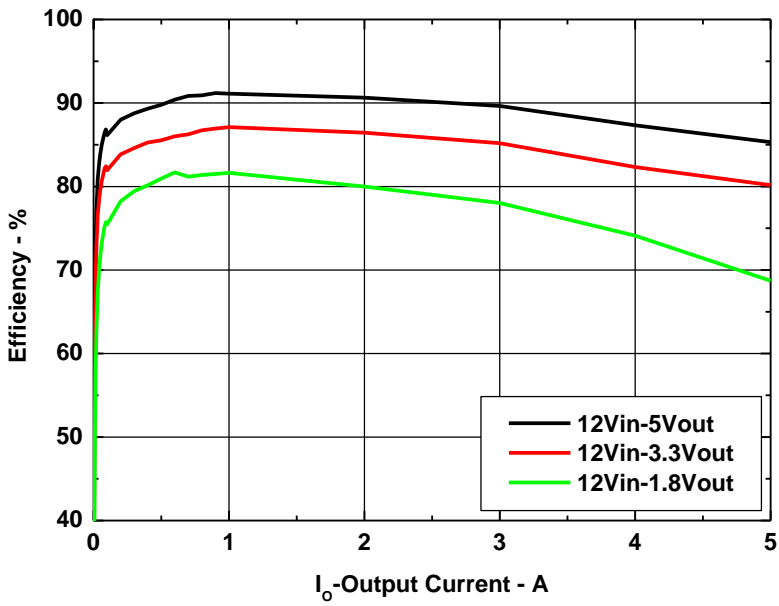
- High Current Driver
- Universal DC/DC Converter
- Universal AC/DC Converter

Buck Converters

AIC28xx/23xx/22xx Series

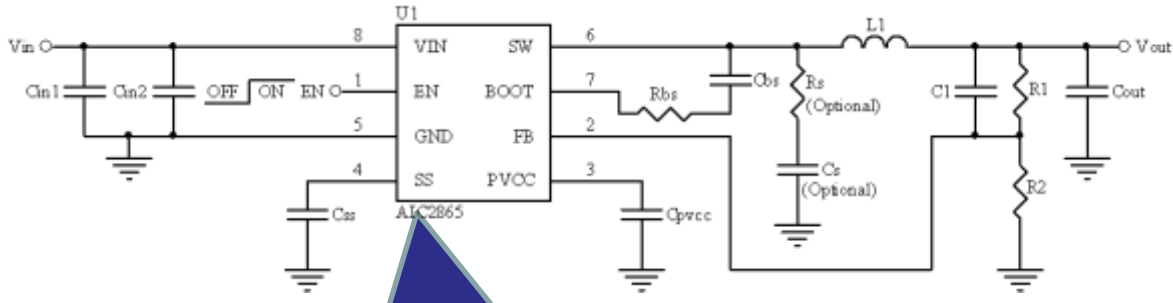
Output Current		≤1.5A	≤2A	≤3A	≤5A
HV Buck	Vin up to 36V			AIC2893 AOT	
	Vin up to 23V		AIC2822 AIC2857F AIC2862	AIC2823 AIC2858F AIC2863	
	Vin up to 16V		AIC2832 AIC2852 AIC2880	AIC2833(FC) AIC2873 AOT	AIC2868(8A) AOT AIC2866(6A) AOT AIC2865(5A) AIC2864(4A)
LV Buck	Vin up to 6V	AIC2259 AOT AIC2354 AIC2385 AIC2359(Dual) AOT AIC2258 AOT AIC2256 AOT AIC2253 AOT AIC2140	AIC2262(FC) AOT AIC2321/22 AIC2361/62 Ultra Low Iq 0.35uA	AIC2323 AIC2363 AIC2369	AIC2324(4A) AIC2364(4A) AIC2367(5A)

5A 16V 700kHz COT Synchronous Step-Down Converter

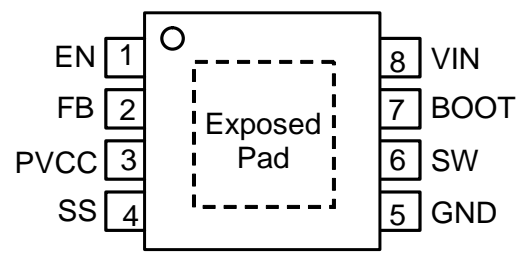


$V_{OUT}=1.05V$, $I_{OUT}=5A$ Ripple at $V_{IN}=12V$

Application Circuit



Package



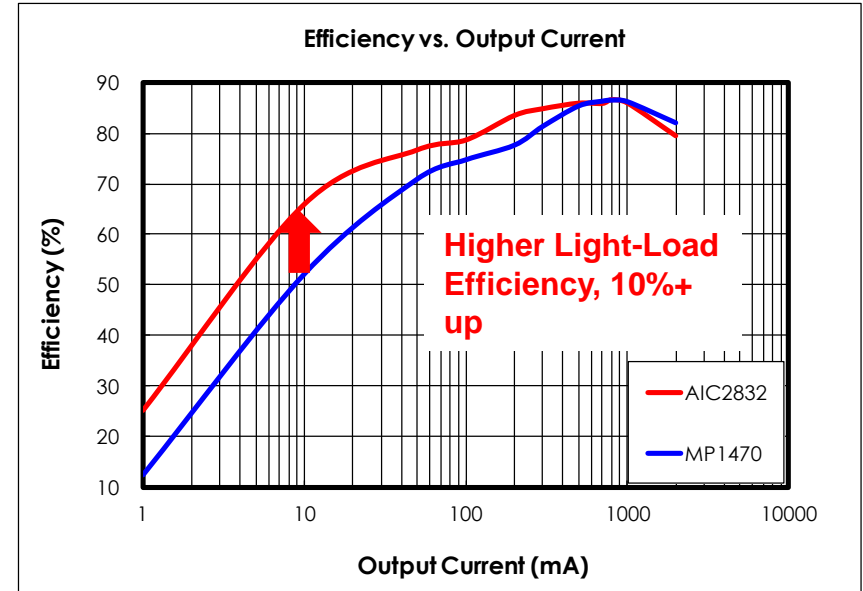
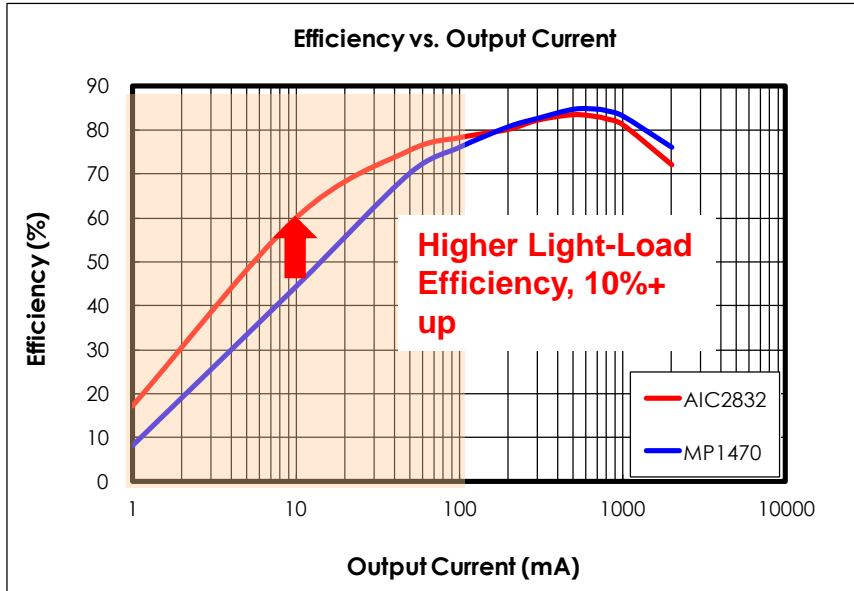
SOP-8 exposed pad

TPS54528 Compatible

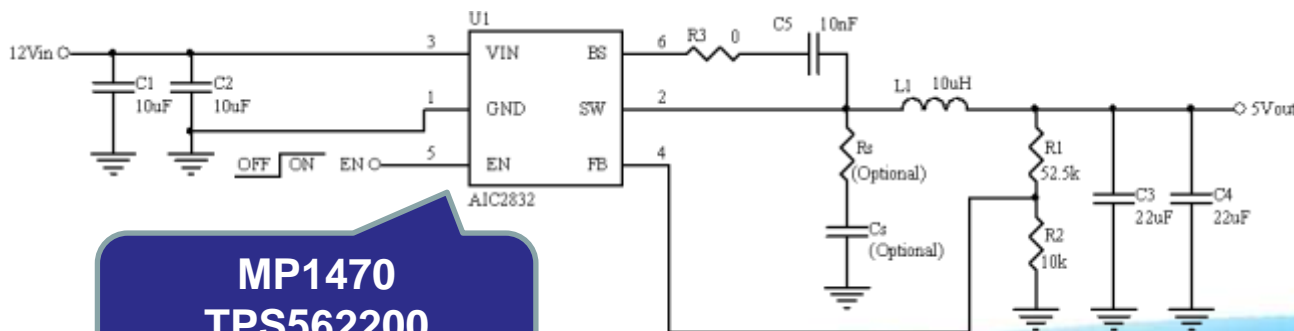
5A 16V 700kHz COT Synchronous Step-Down Converter

Parametrics	AIC2865	TPS54528
Vin(Min)(V)	4.5	4.5
Vin(Max)(V)	16	18
Vout(Min)(V)	0.8	0.76
Vout(Max)(V)	6	6
Iout(Max)(A)	5	5
Regulated Outputs(#)	1	1
Switching Frequency(Min)(kHz)	700	650
Switching Frequency(Max)(kHz)	700	650
Iq(Typ)(mA)	0.7	0.9
Special Features	Enable Light Load Efficiency Synchronous Rectification	Enable Light Load Efficiency Synchronous Rectification
Control Mode	COT	D-CAP2
Operating Temperature Range(C)	-40 to 85	-40 to 85

2A 16V 490kHz PWM/PSM Synchronous Step-Down Converter

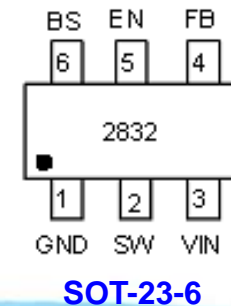


Application Circuit

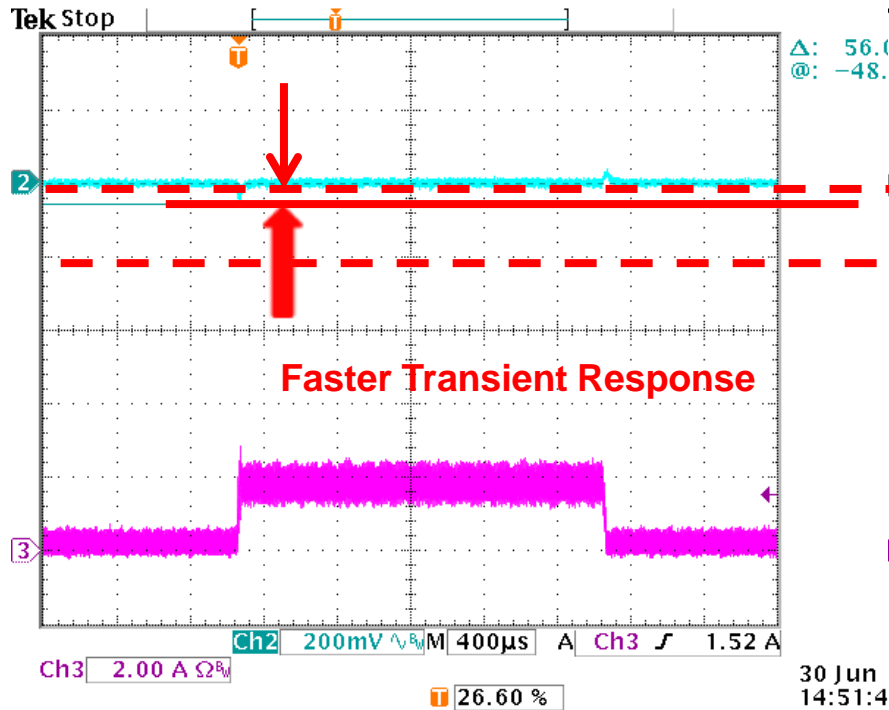


**MP1470
TPS562200
Compatible**

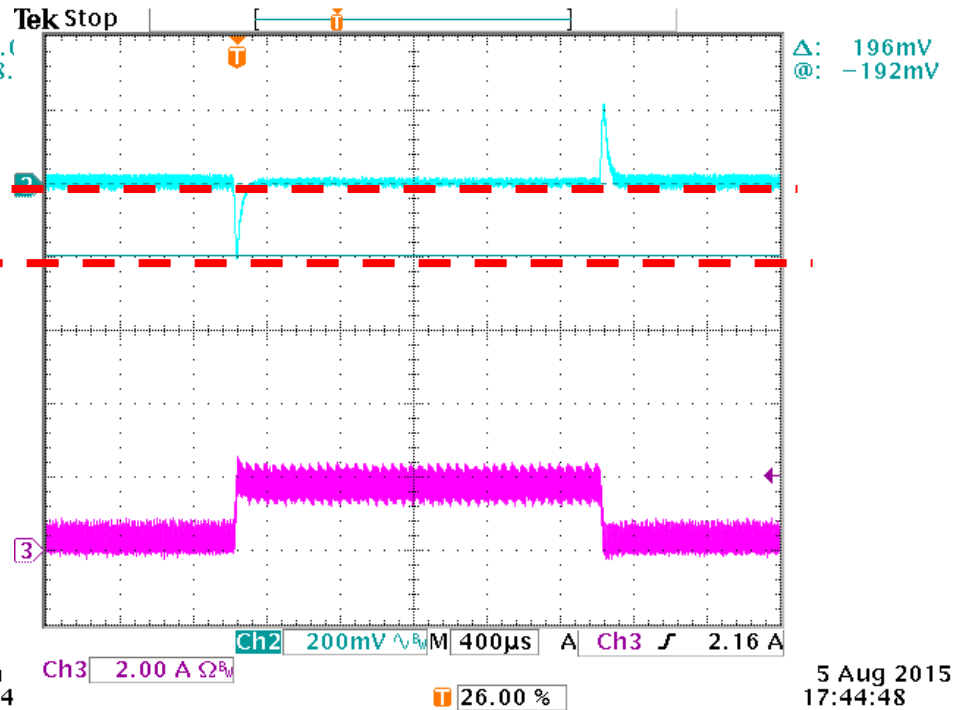
Package



2A 16V 490kHz PWM/PSM Synchronous Step-Down Converter



30 Jun 14:51:4



5 Aug 2015 17:44:48

AIC2832 $V_{IN}=12V$, $V_{OUT}=1.05V$, $I_O=0.2 \sim 1.8A$,
drop=59mV
 CH2: Output Voltage, CH3: Inductor Current

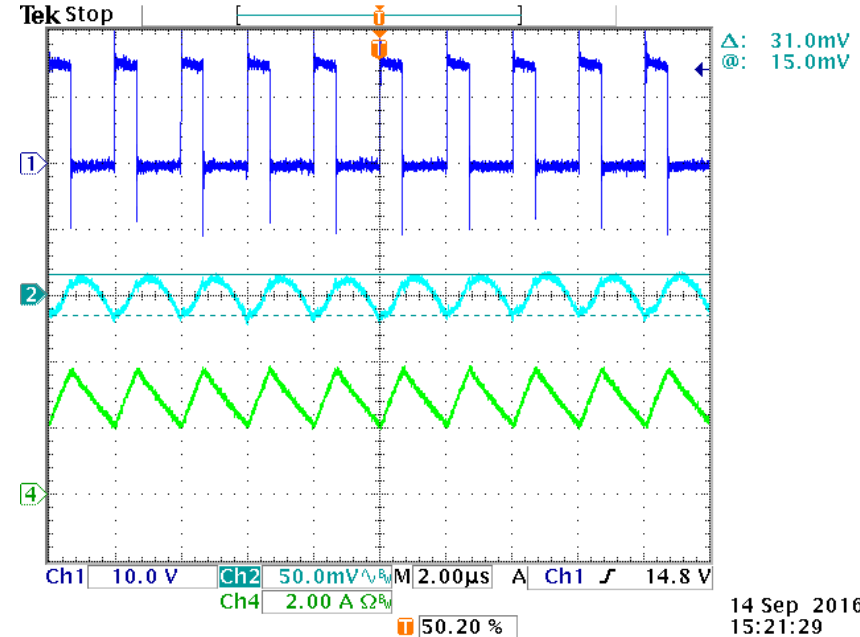
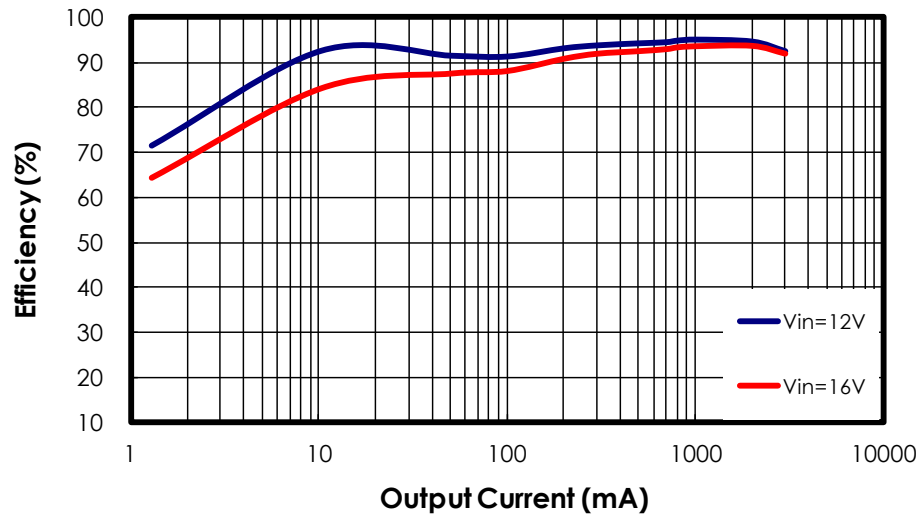
MP1470 $V_{IN}=12V$, $V_{OUT}=1.05V$, $I_O=0.2 \sim 1.8A$,
drop=196mV
 CH2: Output Voltage, CH3: Inductor Current

2A 16V 490kHz PWM/PSM Synchronous Step-Down Converter

Parametrics	AIC2832	TPS562200	MP1470
Vin(Min)(V)	4.5	4.5	4.7
Vin(Max)(V)	16	17	16
Vout(Min)(V)	0.8	0.76	0.8
Vout(Max)(V)	10	7	0.9V _{IN}
Iout(Max)(A)	2	2	2
Switching Frequency(Min)(kHz)	500	650	500
Switching Frequency(Max)(kHz)	500	650	500
Iq(Typ)(mA)	0.5	0.23	0.83
Special Features	Enable Up to 92% efficiency Synchronous Rectification	Enable Light Load Efficiency Synchronous Rectification	Enable Light Load Efficiency Synchronous Rectification
Duty Cycle(Max)(%)	90	80	92
Operating Temperature Range(C)	-40 to 85	-40 to 85	-40 to 85

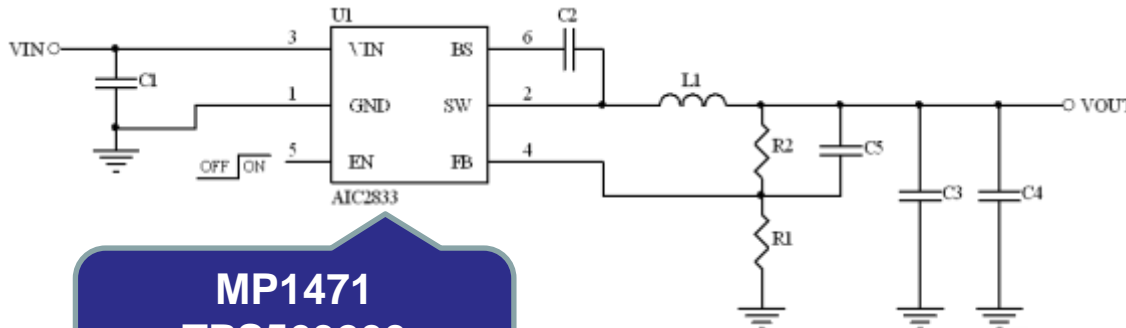
3A 16V 490kHz PWM/PSM Synchronous Step-Down Converter

Efficiency vs. Output Current



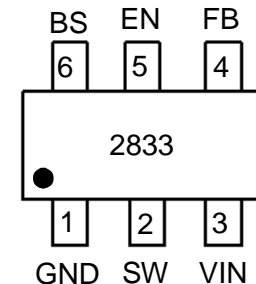
14 Sep 2016
15:21:29

Application Circuit



**MP1471
TPS563200
Compatible**

Package

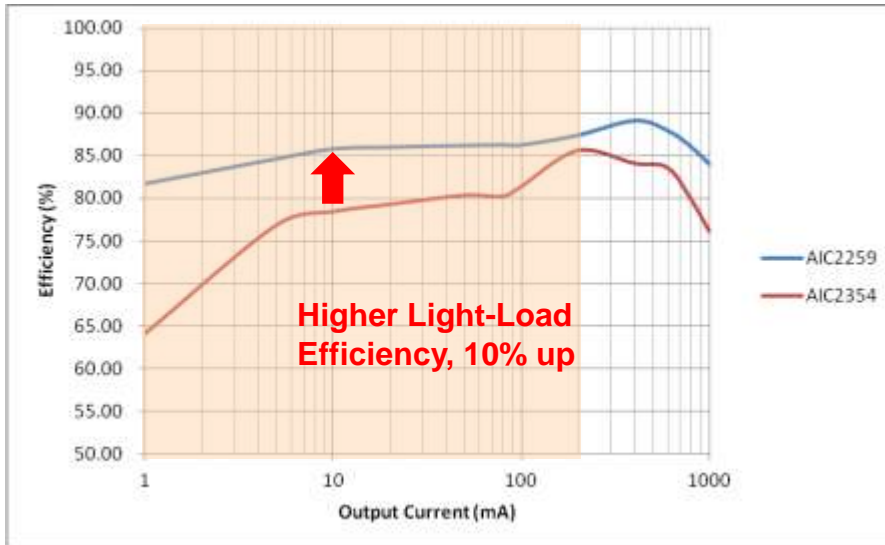


SOT-23-6

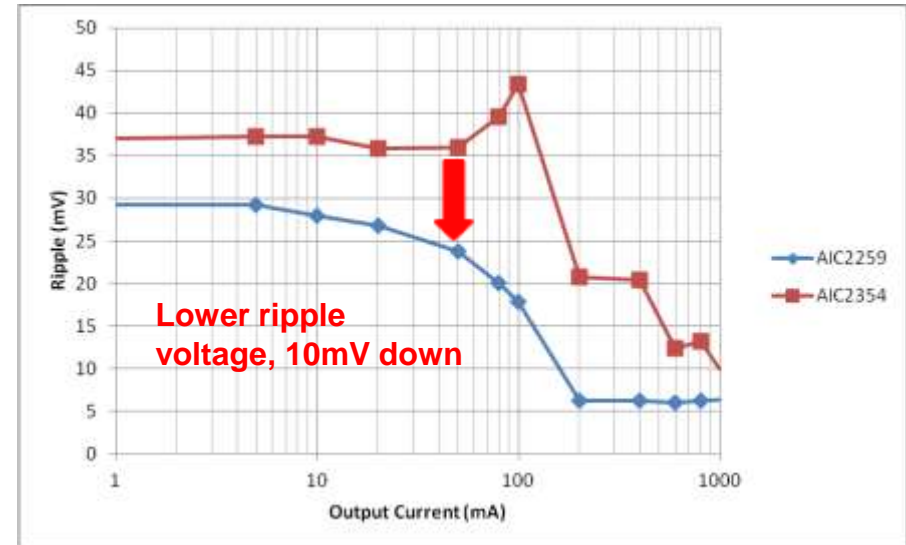
3A 16V 490kHz PWM/PSM Synchronous Step-Down Converter

Parametrics	AIC2833	TPS563200	MP1471
Vin(Min)(V)	4.5	4.5	4.7
Vin(Max)(V)	16	17	16
Vout(Min)(V)	0.8	0.76	0.8
Vout(Max)(V)	10	7	0.9V _{IN}
Iout(Max)(A)	3	3	3
Switching Frequency(Min)(kHz)	490	650	500
Switching Frequency(Max)(kHz)	490	650	500
Iq(Typ)(mA)	0.5	0.19	0.83
Special Features	Enable Up to 95% efficiency Synchronous Rectification	Enable Light Load Efficiency Synchronous Rectification	Enable Light Load Efficiency Synchronous Rectification
Duty Cycle(Max)(%)	90	80	92
Operating Temperature Range(C)	-40 to 85	-40 to 85	-40 to 85

1A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter

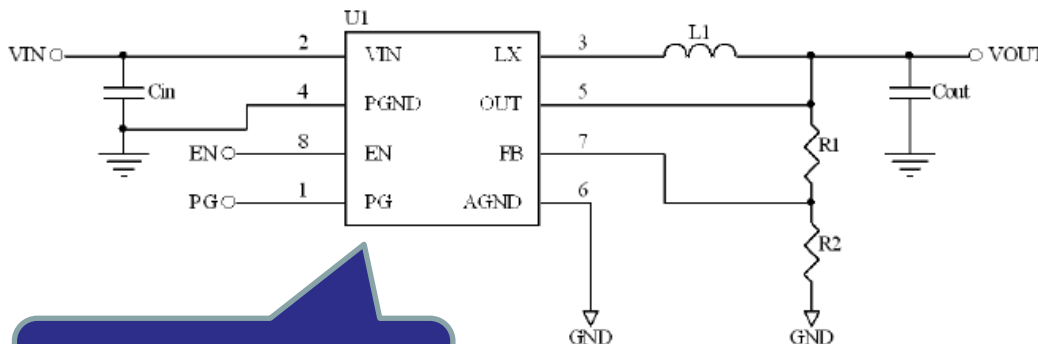


$V_{OUT}=1.0V$ Efficiency at $V_{IN}=5V$

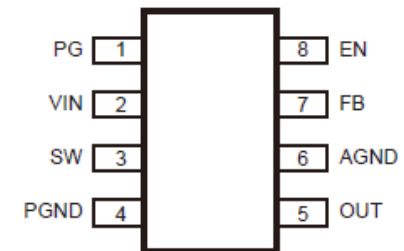


$V_{OUT}=1.0V$ Ripple at $V_{IN}=5V$

Application Circuit



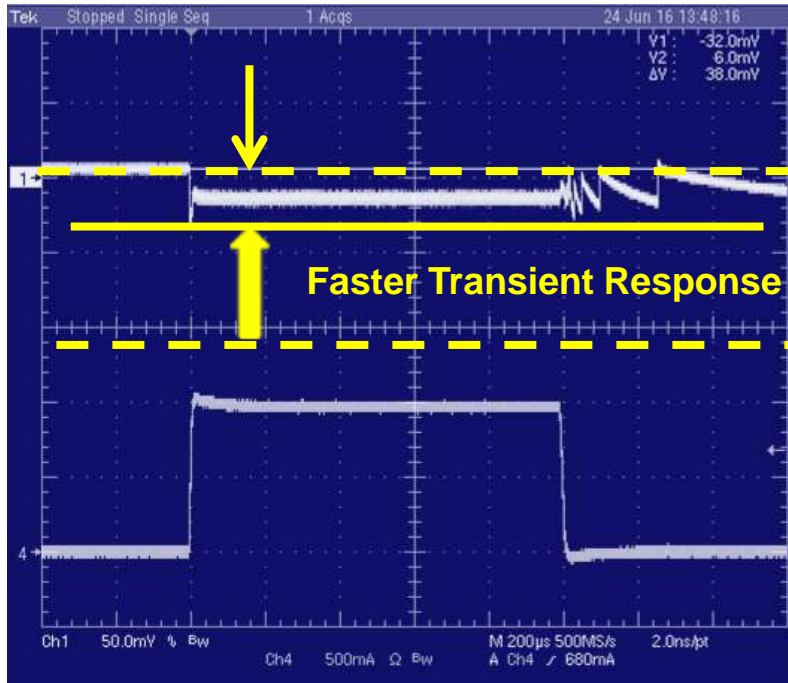
Package



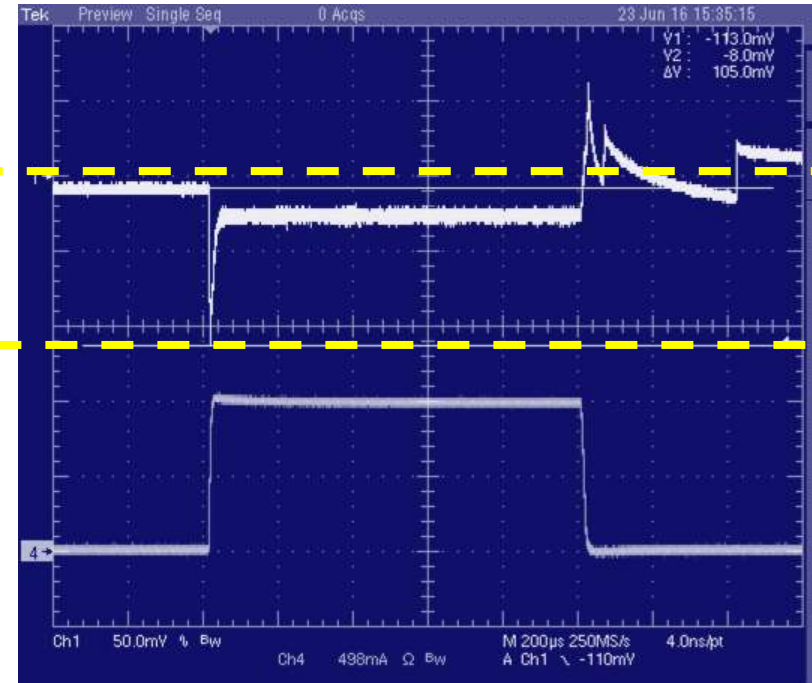
TSOT-23-8

**MP2159
Compatible**

1A, 1.5MHz AOT Synchronous Step-Down DC/DC Converter

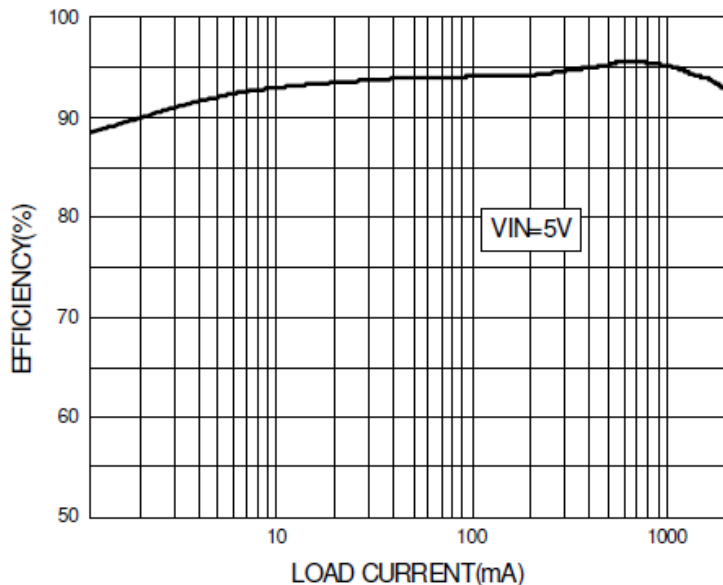


AIC2259 $V_{IN}=5V$, $V_{OUT}=1.0V$, $I_O=0 \sim 1A$,
drop=38mV
 (CH1: Output Voltage, CH4: Output Current)



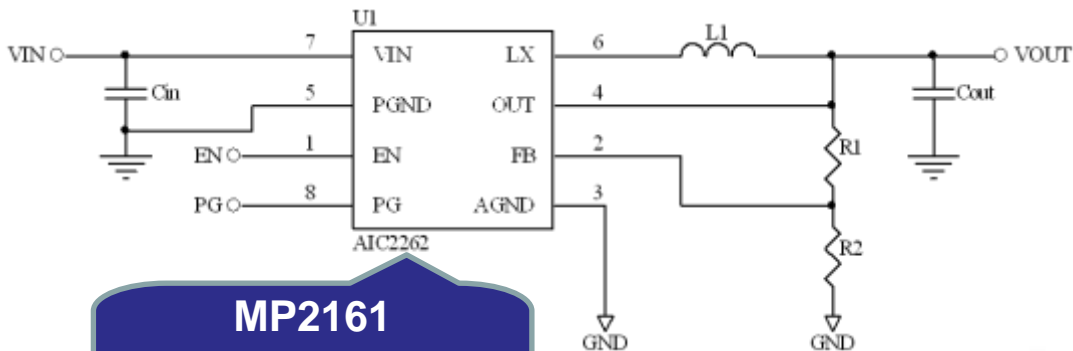
AIC2354 $V_{IN}=5V$, $V_{OUT}=1.0V$, $I_O=0 \sim 1A$,
drop=105mV
 (CH1: Output Voltage, CH4: Output Current)

2A 1.5MHz AOT Synchronous Step-Down Converter

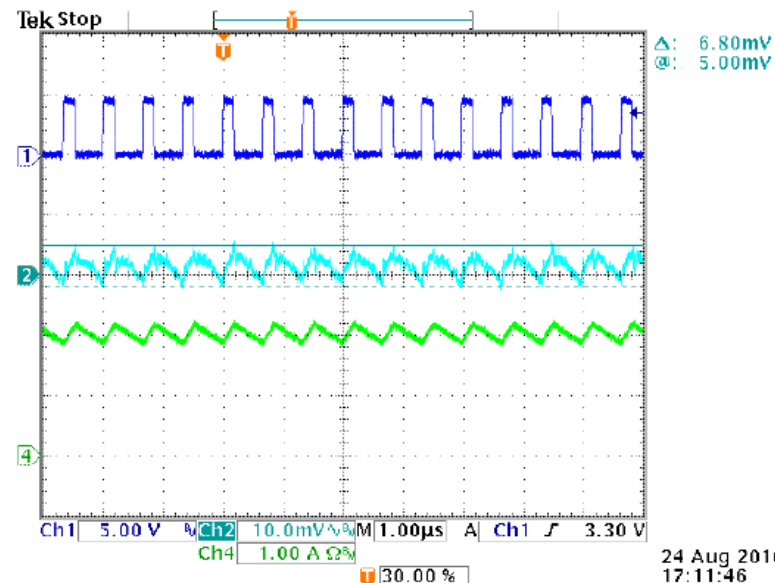


$V_{OUT}=3.3V, V_{IN}=5V$

Application Circuit

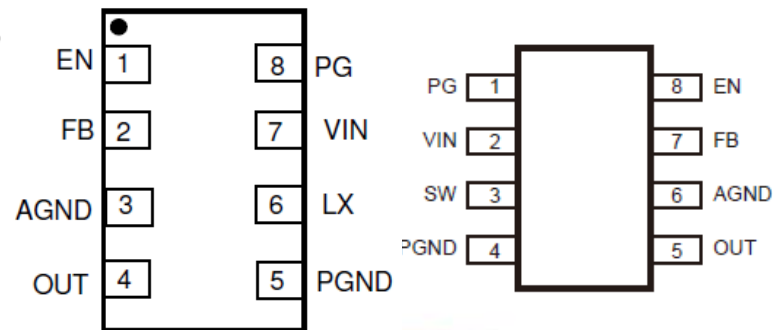


**MP2161
MP2162
Compatible**



$V_{OUT}=1.2V, I_{OUT}=2A$ Ripple at $V_{IN}=5V$

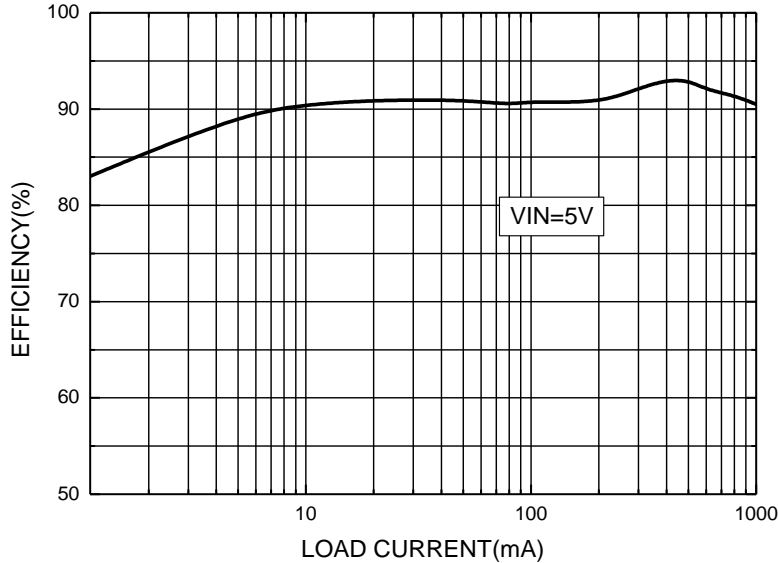
Package



8-pin DFN 2mm x 1.5mm

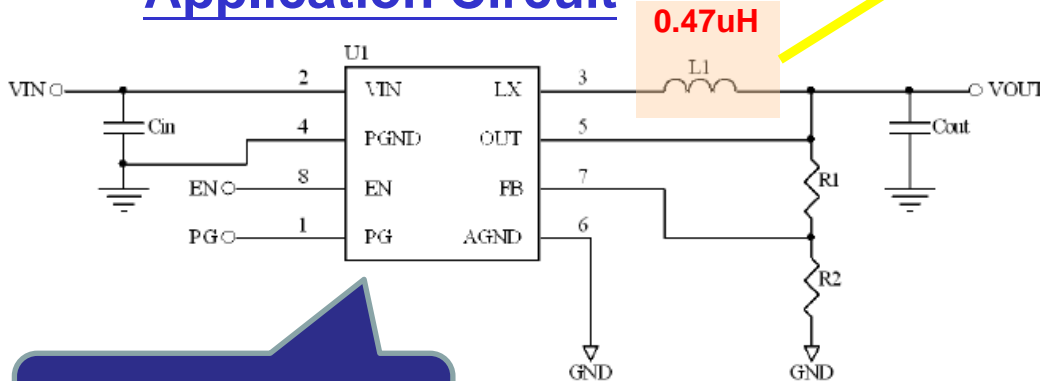
TSOT-23-8

1A, 3MHz AOT Synchronous Step-Down DC/DC Converter

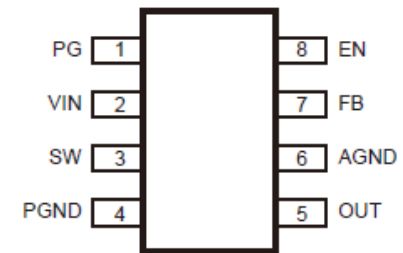


$V_{OUT}=3.3V, V_{IN}=5V$

Application Circuit



Package



TSOT-23-8

**MP2159
Compatible**

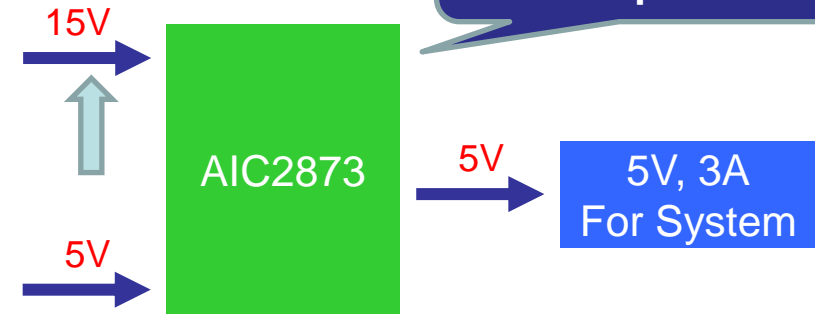
AIC22xx Product Series

Part Number	AIC2385	AIC2253	AIC2256	AIC2258	AIC2259	AIC2262
Input Voltage	2.5V~6V	2.5V~6V	2.5V~6V	2.5V~6V	2.5V~6V	2.5V~6V
Output Current	1.5A	1A	1A	1A	1A	2A
Switching Frequency	1.5MHz	1.5MHz	3MHz	1.5MHz	1.5MHz	1.5MHz
Quiescent Current	65uA	8uA	17uA	17uA	17uA	17uA
Control Mode	Current Mode PWM	AOT	AOT	AOT	AOT	AOT
Package	Wire-bond SOT23-5	Wire-bond TSOT23-8	Wire-bond TSOT23-8	Flip-chip TSOT23-8	Wire-bond TSOT23-8	Flip-chip TSOT23-8 DFN8
Remark	P2P TLV62565	P2P MP2158 MP2159	P2P MP2158 MP2159	P2P MP2158 MP2159	P2P MP2158 MP2159	P2P MP2161 MP2162

3A 17V Synchronous Step-Down Converter with AOT Control

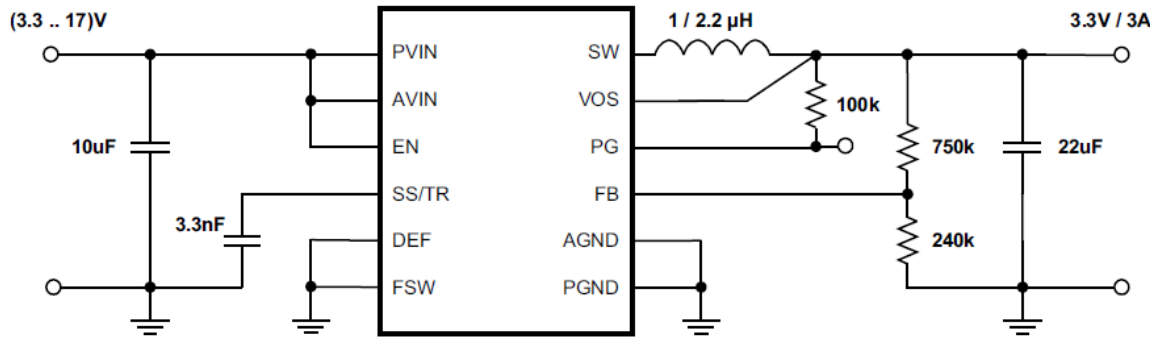
- AOT Topology
- Input Voltage Range: 3 V to 17 V
- Up to 3A Output Current
- Adjustable Output Voltage From 0.9 V to 5 V
- Pin-Selectable Output Voltage (Nominal, + 5%)
- Programmable Soft Start and Tracking
- Seamless Power Save Mode Transition
- **Quiescent Current of 19 μ A (Typical)**
- Selectable Operating Frequency
- Power Good Output
- **100% Duty Cycle Mode**
- Short-Circuit Protection
- **Over-Voltage Protection with Latch**
- Over Temperature Protection
- Available in a 3-mm \times 3-mm, VQFN-16 Package

VIN = 5V~15V

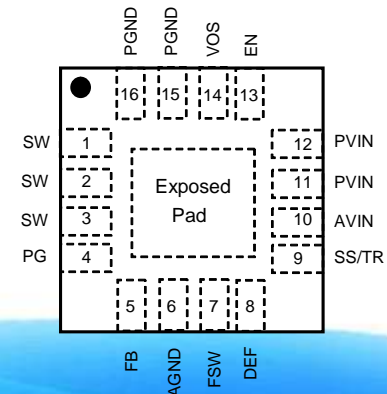


Capable for 100% Duty Cycle Operation

Application Circuit



Package

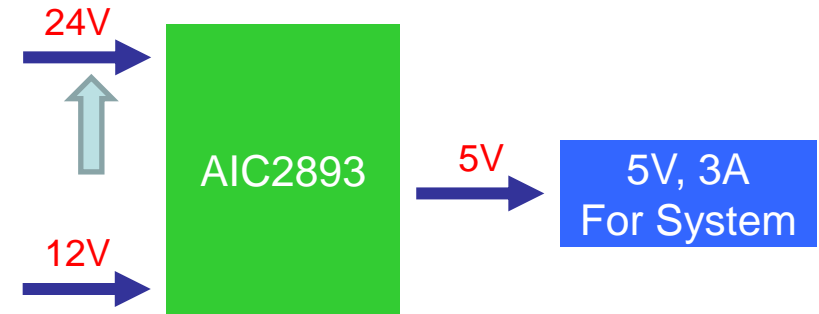


16-pin VQFN 3mm \times 3mm

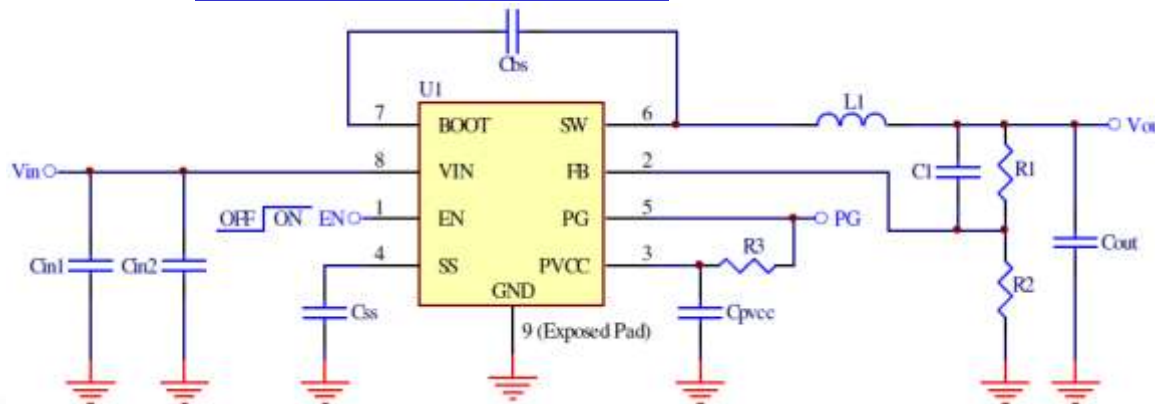
3A 36V 650kHz Synchronous Step-Down Converter

- 3A Continuous Output Current
- Wide 4.5V to 36V Operating Input Range
- Output Adjustable from 0.8V to 6V
- Up to 91% efficiency
- Low $R_{ds(on)}$ Internal Switch
- Adaptive On Time Control
- Fast Transient Response
- 650kHz Switching Frequency
- Programmable Soft Start
- Thermal Shutdown
- Cycle by Cycle Over Current Protection
- Short Circuit Protection
- Thermal Shutdown
- Available in SOP-8 exposed pad (Heat Sink) package

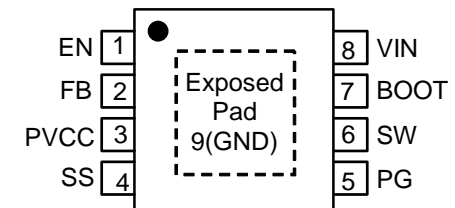
VIN = 4.5V ~ 36V



Application Circuit



Package

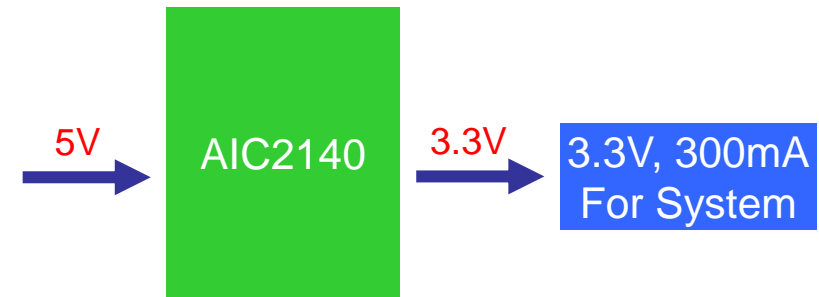


SOP-8 exposed pad

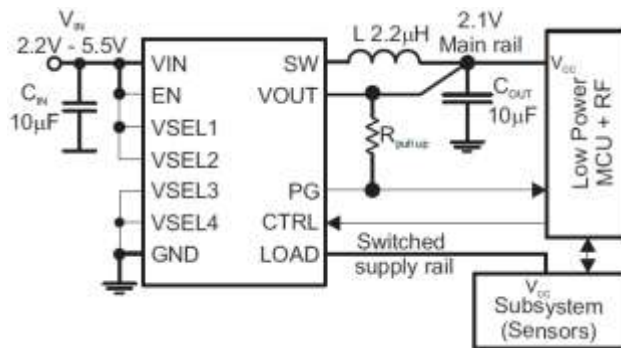
300mA Ultra Low Iq Step-Down Converter with AOT Control

- Typ. 360nA Quiescent Current
- Adaptive On Time Control
- 2.2V to 5.5V Input Range
- Up to 90% Efficiency at 10µA Output Current
- 16 Selectable Output Voltages in 100mV Steps between 1.8V to 3.3V
- Up to 300mA Output Current
- Automatic Transition to No Ripple 100% Mode
- Low Output Ripple Voltage
- Slew Rate Controlled Load Switch
- Discharge Function on VOUT / LOAD
- Power Good Output
- Up to 2 MHz Switching Frequency
- Optimized for Operation with a Tiny 2.2µH Inductor and 10µF C_{OUT}
- Small 2.4 x 2.4 mm² DFN-12 Package

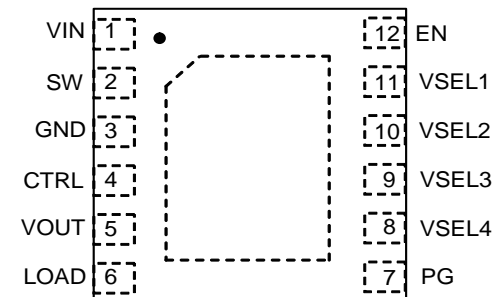
VIN= 4.5V~16V



Application Circuit



Package



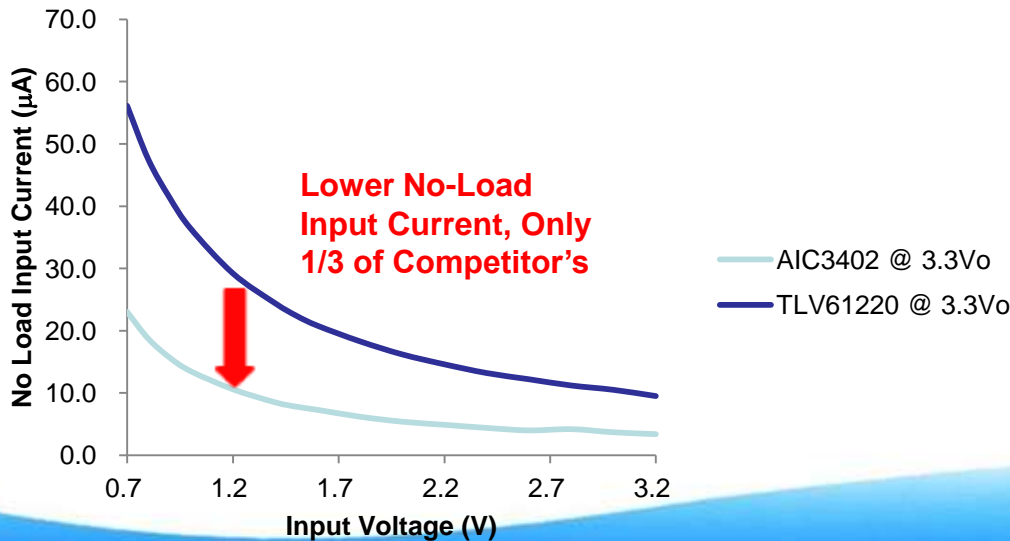
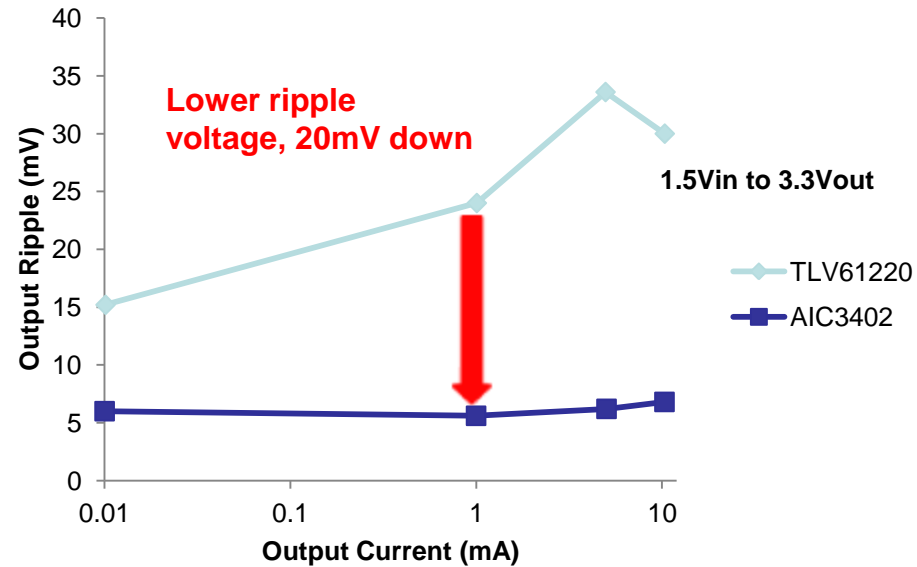
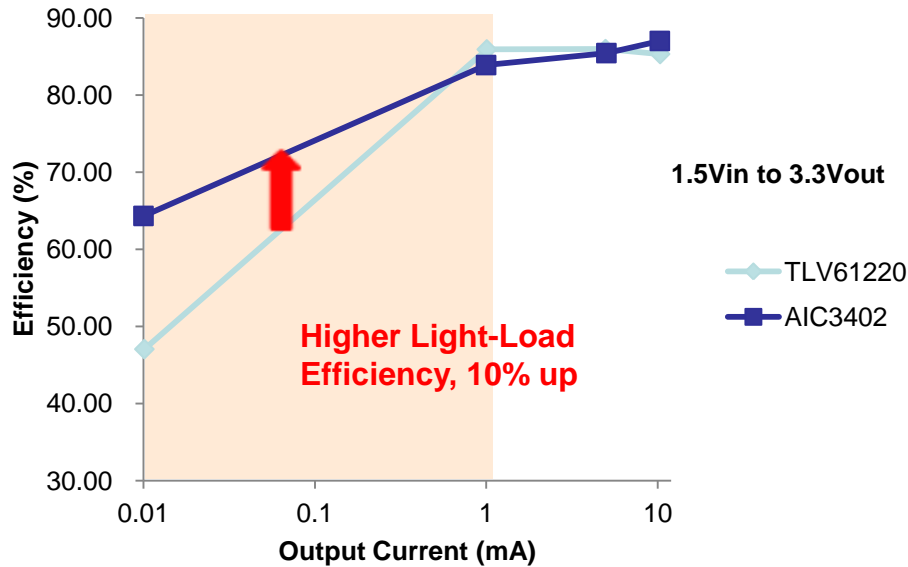
12-pin DFN 2.4mm x 2.4mm

Boost Converters

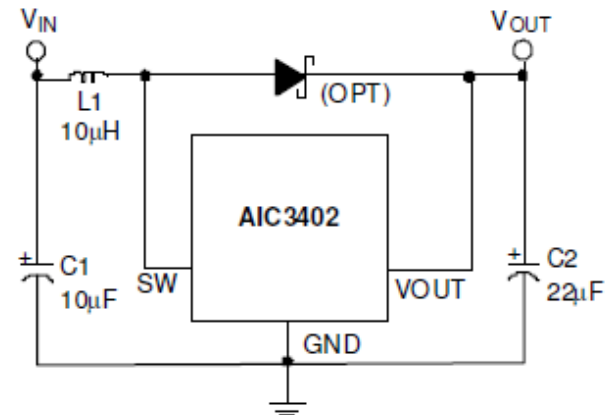
AIC16xx/34xx/36xx Series

Switch Current Limit		≤1A	≤2A	≤3A	≤5A
Boost	Vout up to 40V		AIC3646		
	Vout up to 30V	AIC1634 AIC1647 AIC1896			
	Vout up to 24V	AIC3634 AIC3643			
	Vout up to 5.5V	AIC3402 AIC3411/12 AIC3413	Low Iq 3uA AIC3415	AIC3417	AIC3418 AIC3420(6.5A)
Output Current		≤1A	≤2A	≤3A	≤5A
Buck-Boost	Vin up to 5.5V	AIC2341 AIC2341A AIC2340	AIC2342	AIC2343	

Synchronous Step-Up DC/DC Converter



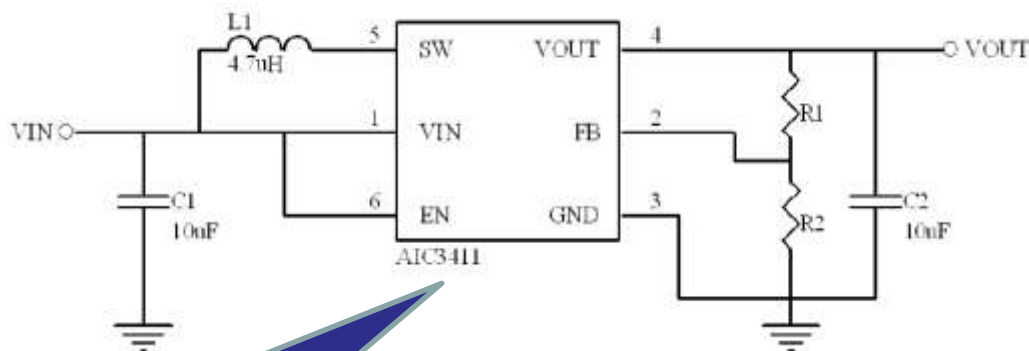
Application Circuit



SC-70 Package Low IQ High Light Load Efficiency Synchronous Boost Converter

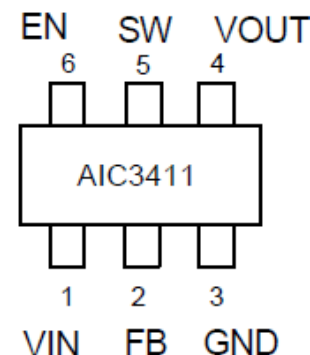
- Deliver 3.3V at 60mA from a Single Alka-line/Ni-MH or 3.3V at 120mA from Two Cells
- Up to 94% Efficiency
- Low Shutdown Current: <math><1.0\mu\text{A}</math>
- Low Quiescent Current: **7.5 μA** .
- Low No-load Input Current (see Typical Performance Characteristics for detail)
- Start up Into Load at 0.7V Input Voltage
- **Output Disconnect** by Shutdown Function
- Anti-ringing Control for EMI Consideration
- Small **SC70-6** Package

Application Circuit



TPS61220
Compatible

Package



SC70-6

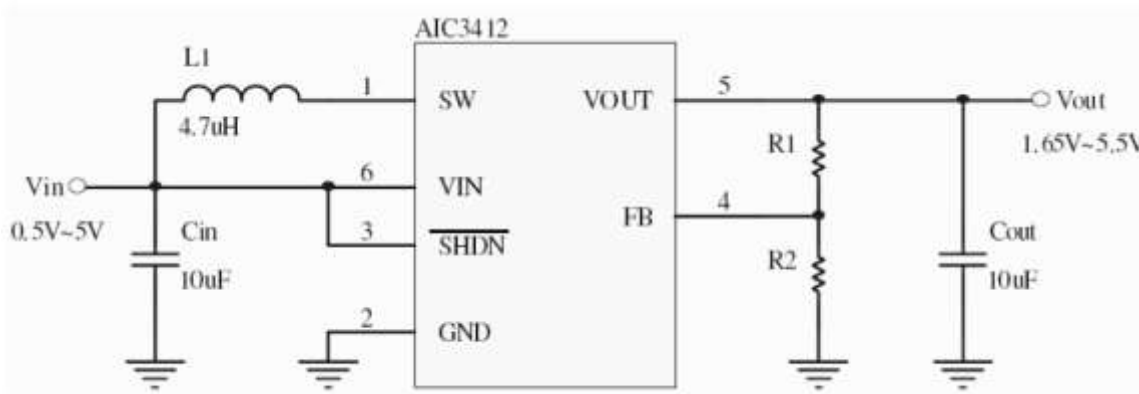
SC-70 Package Low IQ High Light Load Efficiency Synchronous Boost Converter

	AIC3411	TPS61220
Start up voltage	0.7V	0.7V
Vout range	1.65V~5.5V	1.8~5.5V
Quiescent current	7.5 μ A	5 μ A
Current limit	0.4A	0.4A
Control mode	Sync Constant Off Time/PSM	Sync Hysteretic Current Control
Max Efficiency	93%	95%
Package	SC-70	SC-70
True shut down	Yes	No
Diode required	No	No
Cin/Cout	10uF/10uF	10uF/10uF

Low IQ High Light Load Efficiency Synchronous Boost Converter

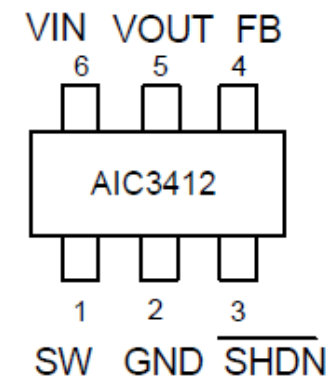
- Deliver 3.3V at 60mA from a Single Alka-line/Ni-MH or 3.3V at 120mA from Two Cells
- Up to 94% Efficiency
- Low Shutdown Current: $< 1\mu\text{A}$
- Low Quiescent Current: $12\mu\text{A}$.
- Low No-load Input Current (see Typical Performance Characteristics for detail)
- Output Disconnect by Shutdown Function
- Small SOT23-6 Package

Application Circuit



**TPS61070
Compatible**

Package



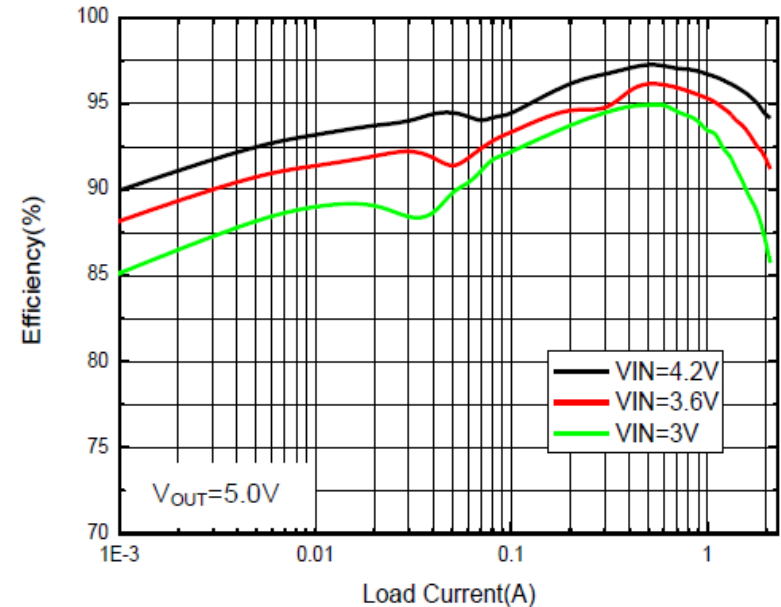
SOT23-6

Low IQ High Light Load Efficiency Synchronous Boost Converter

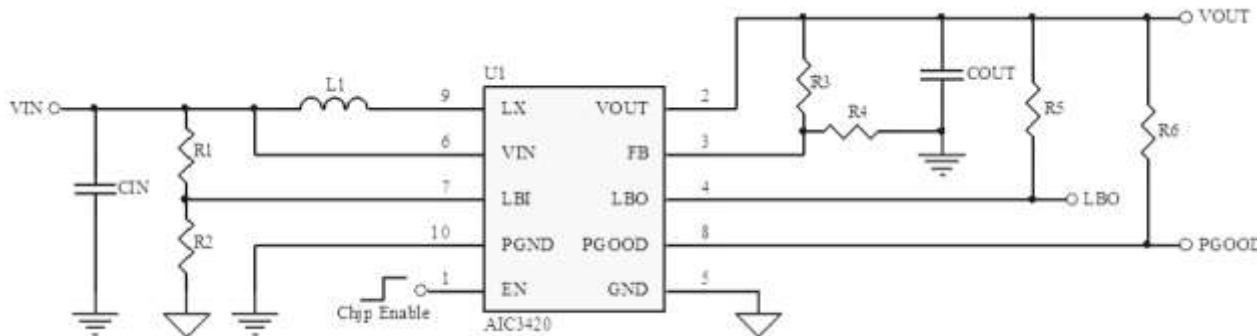
	AIC3412	TPS61070
Start up voltage	0.7V	0.9V
Vout range	1.65V~5.5V	1.8~5.5V
Quiescent current	12μA	19 μ A
Current limit	0.48A	0.6A
Control mode	Sync Constant Off Time/PSM	Fixed Frequency PWM
Max Efficiency	94%	90%
Package	SOT23-6	DDC6(SOT23-6)
True shut down	Yes	Yes
Diode required	No	No
Cin/Cout	10uF/10uF	10uF/10uF

2.1A Synchronous Step-Up Converter

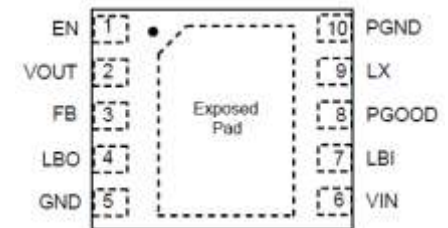
- Vin Start Up Voltage: 0.9V
- Output Voltage Range: from 2.5V to 5.5V.
- Up to 94% Efficiency
- Up to 2.1A Continuous Output Current
- Allow EN pin Floating
- Built-in current mode compensation
- Built-in Protection: Over Current, Over Voltage, Over Temperature
- Optional Active High/Low EN pin
- Logic Controlled Shutdown: < 1μA
- Output Disconnect by Shutdown Function
- Built-in Soft Start



Application Circuit



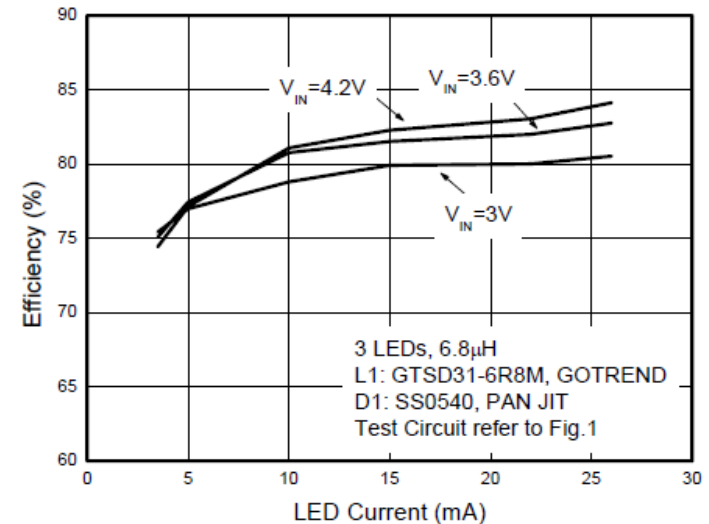
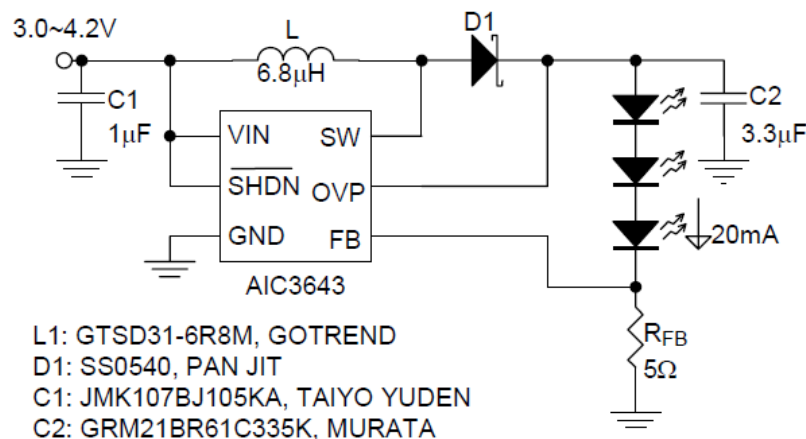
Package



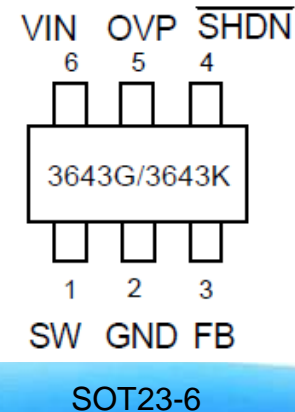
Built-in OVP White LED Step-Up Converter

- Built-In Open Circuit Protection
- Over Voltage Protection
- Efficiency Up to 83% at $V_{IN}=4.2V$, 3LEDs, $I_{LED}=20mA$
- 1.2MHz Fixed Switching Frequency
- Drives Up to 5LEDs in series
- 2.5V to 5.5V Input Voltage
- Low Supply Current: 150 μA
- Matches LED Current
- Requires Tiny Inductor and Capacitors
- TSOT-23-6, and SOT-23-6 Packages

Application Circuit



Package



1A 2.5MHz Synchronous Buck-Boost DC/DC Converter

- Regulated Output with Input Voltage Above, Below, or Equal to The Output
- 1A Output Current at 3.3V in Step-Down Mode
- Up to 800mA Output Current at 3.3V in Boost Mode
- Single Inductor
- 2.5V to 5.5V Input Voltage Range
- Fixed and Adjustable Output Voltage Options from 1.8V to 5.5V
- Up to 95% Efficiency
- Stable with Low ESR Ceramic Capacitors
- No Schottky Diode Required
- Output Disconnect in Shutdown
- <1uA Shutdown Current
- <65uA Quiescent Current
- Power Saving Mode for Improved Light-Efficiency Operation
- Forced Fixed Frequency Operation Mode
- Load Disconnect During Shutdown
- Undervoltage Lockout Protection

VIN = 2.5V~5.5V

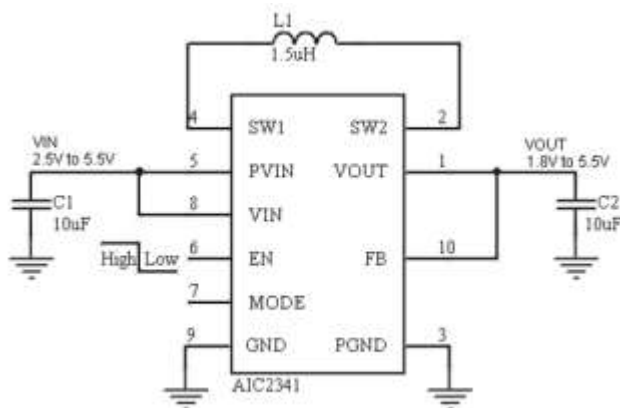
2.7V~4.2V



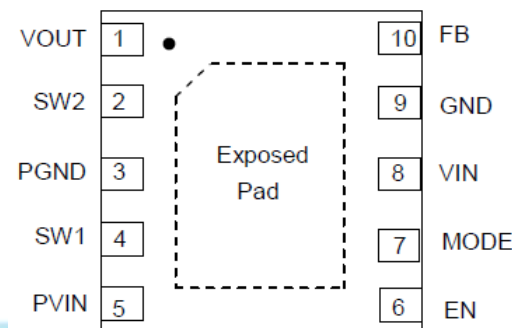
TPS63000
MP2155
RT6150A
Compatible

3.3V, 1A
For System

Application Circuit



Package



10-pin DFN 3mm x 3mm

1A 2.5MHz Synchronous Buck-Boost DC/DC Converter

	AIC2341	TPS63000	MP2155	RT6150A
Input Voltage	2.5V~5.5V	1.8V ~5.5V	2V~5.5V	1.8V~5.5V
Vout range	1.8V~5.5V	1.2V ~5.5V	1.5V~5V	1.8V~5.5V
Quiescent current	50μA	40μA	80μA	60μA
Switching Frequency	2.5MHz	1.5MHz	1MHz	1MHz
Output Current	1A@Buck 0.8A@Boost	1.2A @Buck 0.8A@Boost	1A@Buck 1A @Boost	0.8A@Buck 0.8A@Boost
Current Limit	1.8A	1.8A	2.2A	1.6A
Package	DFN10	QFN10	QFN10	QFN10
Cin/Cout	10uF/10uF	10uF/10uF	10uF/22uF	10uF/20uF
Inductor	1.5uH	2.2uH	3.3uH	2.2uH

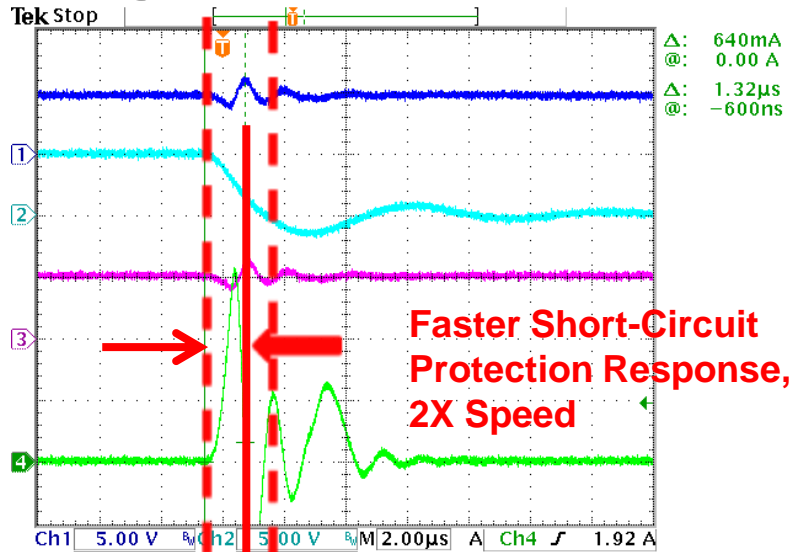
Power Switch

AIC61xx Series

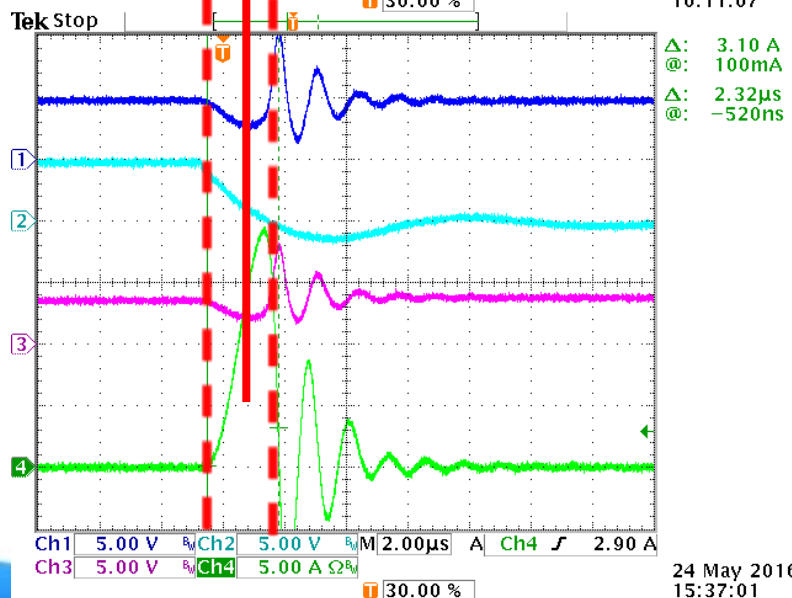
Current Limit		Single Channel	Dual Channel
USB Power Switch	≤1A	AIC6161 AIC6151	AIC6186
	≤2A	AIC6162(1.4A) AIC6163 AIC6170 AIC6152	AIC6176(1.25A) AIC6178 AIC6188(1.55A)
	≤3A	AIC6156 AIC6164(3.2A)	
Regulatory USB Power Switch	≤1A	AIC6166 AIC6168	
Bare-Bone Power Switch	≤1A	AIC6191	AIC6196
	≤2A	AIC6193	AIC6198

Fast SCP 1.3uS,
±7~15% Curr. Accuracy

Single Channel USB Switch with Adjustable Current Limit



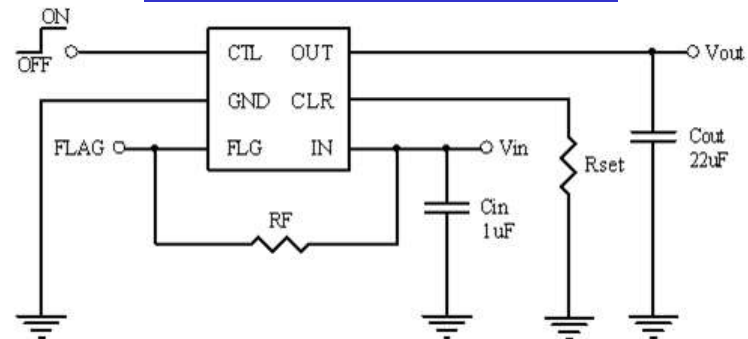
7 Jun 2016 10:11:07



24 May 2016 15:37:01

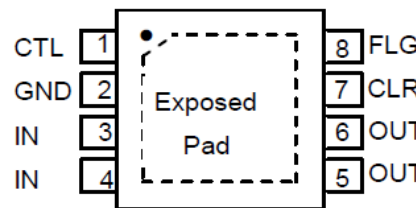
AIC6156 $V_{IN}=5V$, $I_{CL}=0.5A$, **Res. Time=1.32 μ s**
 (CH1: Input Voltage, CH2: Output Voltage, CH3: FLG, CH4: Input Current)

Application Circuit

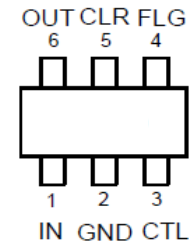


TPS2554 $V_{IN}=5V$, $I_{CL}=0.5A$, **Res. Time=2.32 μ s**
 (CH1: Input Voltage, CH2: Output Voltage, CH3: FLG, CH4: Input Current)

Package



SOP-8 EP



SOT-23-6

USB Power Switch at 3A

	AIC	TI	Rohm	On-Semi
Part Number	AIC6156	TPS2554 TPS2555	BD82024 BD82025	NCP383
Short Circuit Response Time(uS)	1.3	1.5	5	2
Continuous Load Current (A)	0.5~3 (Adj.)	0.5~2.5 (Adj.)	2.5 (Adj.)	0.5~2.1 (Adj.)
MOS R-DS-ON (mohm)	60	73	90	45
Supply current (μA)	85	90	95	99
Input Voltage Range (V)	3.5~5.5	4.5~5.5	2.8~5.5	2.7~5.5
Current Limit Threshold (mA)	3060/ 3600/ 4140 1700/ 2000/ 2300 425/ 500/ 575	2550/ 2840 / 3100 2150/ 2430/ 2650 420/ 480/ 530 185/ 230/ 265	2100/2500/3300	2580/2800/3010 900/1000/1100 500/600/700
Current Limit Accuracy (%)	±15	±12	±15	±8
High Side Switch	NMOS	NMOS	NMOS	NMOS
Flag Delay Time (mS)	9	8.5	12	7
Output discharge	Yes	Yes	Yes	No
Package	SOP-8/SOT23-6	VSON	SOP8	UDFN10

USB Power Switch at 2A

	AIC	TI	Rohm	On-Semi
Part Number	AIC6152	TPS2553	BD2222G BD2242G BD2243G	NCP380 NCV380
Short Circuit Response Time(uS)	1.3	2	5	2
Continuous Load Current (A)	0.5~2 (Adj.)	0.75~1.7 (Adj.)	0.2~1.7 (Adj.)	0.5~2.1 (Adj.)
MOS R-DS-ON (mohm)	60	85	89	70
Supply current (μA)	85	100	120	90
Input Voltage Range (V)	3.5~5.5	2.5~6.5	2.8~5.5	2.5~5.5
Current Limit Threshold (mA)	1700/ 2000/ 2300 425/ 500/ 575	1610/ 1700 / 1800 1215/ 1295/ 1375 490/ 520/ 550 100/ 130/ 150	1566/1696/1826 911/1028/1145 112/212/313	2100/2250/2500 1000/1150/1300 500/580/650
Current Limit Accuracy (%)	±15	±6	±8	±12
High Side Switch	NMOS	NMOS	NMOS	PMOS
Flag Delay Time (mS)	9	8	7	8
Output discharge	Yes	No	BD2242/43	No
Package	SOT23-6	SOT23-6	SSOP6	TSOP-6

Stepper Motor Driver

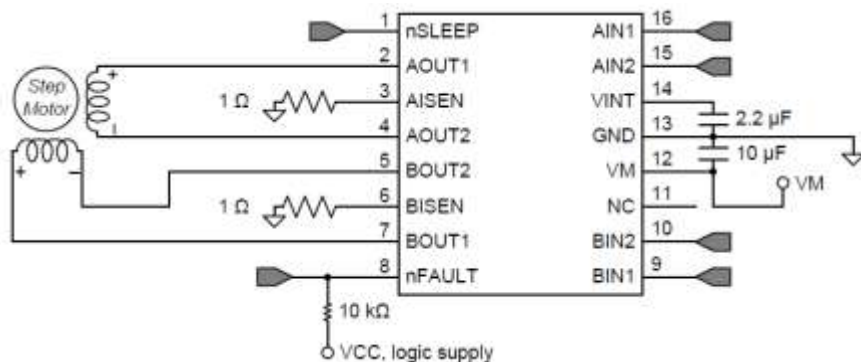
AIC88xx Series

Output Current		$\leq 700\text{mA}$	$\leq 1.5\text{A}$	$\leq 2.5\text{A}$
Surveillance	Vin up to 45V		AIC8863	
MFP	Vin up to 38V		AIC8853	AIC8855
POS & Toy	Vin up to 10V	AIC8833	AIC8835	

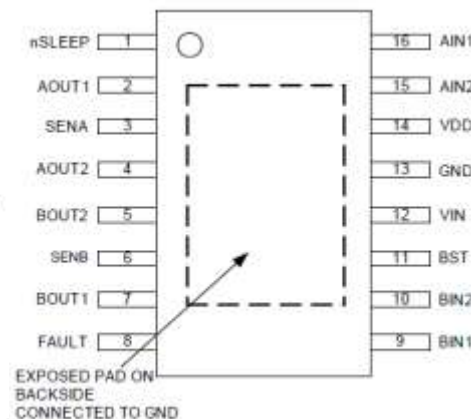
700mA Stepper Motor Driver with Integrated MOSFETs

- Wide 2.7V to 10.8V Input Voltage Range
- Two Internal Full-Bridge Drivers
- Low MOSFET On Resistance (HS + LS = 1735mohm)
- Output Current Capability at 0.7A RMS on HTSSOP, 0.6A RMS on QFN
- Easy PWM Interface
- Low Sleep Current: 1.6uA
- Thermal Shutdown and Under-Voltage Lockout Protection
- Over-Temperature Output Flag
- Thermally-Enhanced Surface-Mount Package

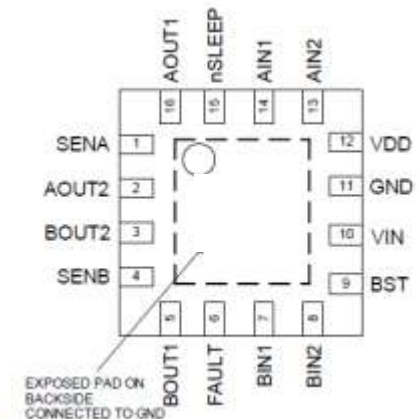
Application Circuit



Package



16pin TSSOP16-EP



16pin QFN 3mm x 3mm

700mA Stepper Motor Driver with Integrated MOSFETs

	AIC	Ti	MPS
Part Number	AIC8833	DRV8833C	MP6507
Output Current (mA)	700	700	700
MOS R-DS-ON (mohm)	1180/555	1180/555 I _{out} =200mA	460/395 I_{out}=500mA
Quiescent current (A)	1.7mA	1.7mA	1.1m
Sleep Mode Current (A)	1.6uA	1.6uA	1uA
Input Voltage Range (V)	2.7~10.8	2.7~10.8	2.7~15
Package	TSSOP16-EP QFN16 3X3	HTSSOP16 QFN16 3X3	TSSOP16-EP QFN16 3X3 QFN16 4X4

ULDO Linear Regulators

AIC11xx/12xx/17xx Series

Output Current		$\leq 150\text{mA}$	$\leq 300\text{mA}$	$\leq 600\text{mA}$	$\leq 1\text{A}$	$\leq 2\text{A}$	
Single Channel	Vin up to 12V	AIC1730	AIC1731 AIC1734	AIC1733 AIC1735			
	Vin up to 9V	AIC1742	Low Noise 25uVrms				
	Vin up to 7V	AIC1701 AIC1746	AIC1702 AIC1747	AIC1748	AIC1190	AIC1221	
		Ultra Low Iq 3uA					
		PSRR 65dB@1kHz					
Dual Channel	Vin up to 7V		AIC1952	AIC1953			

Highlights

- **Focused Products**

- AIC2865 – 5A HVB in SOP8-EP, HLL η , pin-compatible with TPS54528
- AIC2832 – 2A HVB in SOT23-6, HLL η , pin-compatible with MP1470/TPS56220x
- AIC2833 – 3A HVB in SOT23-6, HLL η , pin-compatible with MP1471/TPS56320x
- AIC2259 – 1A LVB in SOT23-8, HLL η , AOT, pin-comp. with MP2159
- AIC2256 – 1A LVB in SOT23-8, HLL η , AOT, 3MHz Frequency, pin-comp. with MP2159
- AIC2253 – 1A LVB in SOT23-8, HLL η , AOT, 8uA Low Iq, pin-comp. with MP2159
- AIC2262 – 2A LVB in SOT23-8/DFN8, HLL η , AOT, pin-comp. with MP2161
- AIC3402 – 0.5A LV Boost in SOT23, 3uA Low Iq
- AIC3420 – 2.1A LV Boost in DFN10 and SOP8-EP
- AIC2341 – 1A LV Buck-Boost in DFN10, pin-comp. with TPS63000/MP2155/RT6150A
- AIC6156/52/51 – 3A/2A/1A UPS in SOP8-EP and SOT23-6, 1.3uS Fast SCP, $\pm 7\sim 15\%$ current accuracy

- **Advanced Technology**

- AOT (Adaptive On-Time Control) –
 - **Higher** light-load eff., **Smaller** ripple V., **Faster** transient
- Low Iq – Power-saving, extending battery life, 30uA -> 3uA -> 0.3uA (Q2 '17)
- Fast Short-Circuit Response Time – 1.3uS

Mastering the POWER

