

HIGH VOLTAGE MONOLITHIC BUCK(STEP-DOWN)

Part Number	Description	Operating Voltage (V)	Output Current (A)	Supply Current	Shutdown Current	Oscillation Frequency	Feedback Voltage (V)	OC	SCP	SS	UVLO	OTP	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS1002	Async. Buck IC	3.0-20	2.0	3mA	3mA	360KHz	0.5V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now			
AS1003	Async. Buck IC	3.0-20	3.0	3mA	3mA	360KHz	0.5V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now			
AS1006	Async. Buck IC Max. Duty 100%	3.6-28	2.0	3mA	3mA	320KHz	0.8V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Q1' 10			
AS1007	100%	3.6-28	3.0	3mA	3mA	320KHz	0.8V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Q1' 10			
AS1013	Async. Buck IC Max. Duty 100%	3.6-25	2.0	3mA	1uA	320KHz	0.8V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now	Diodes, AX	AP1513, AX3101	●
AS1014	Async. Buck IC Max. Duty 100%	3.6-25	3.0	3mA	1uA	320KHz	0.8V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now	Diodes, AX	AP1513, AX3102	●
AS1015	Async. Buck IC	3.6-25	5.0	3mA	1uA	320KHz	0.8V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now			
AS1061	Async. Buck IC	4.75-23	2.0	3mA	1uA	1.4MHz	0.92V(2%)	✓	✓	✓	✓	✓	-40-85°C	MSOP-10L, SOP-8L	Q2' 10	MPS	MP2361 (2A, 23V, 1.4MHz, Vfb=0.92V)	●
AS1102	Sync. Buck IC	4.75-23	2.0	3mA	1uA	340KHz	0.92V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-9L	Q1' 10	MPS	MP1482(2A,23V,340KHz,Vfb=0.92V)	●
AS1103	Sync. Buck IC	4.75-23	3.0	3mA	1uA	340KHz	0.92V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-10L	Q1' 10			

LOW VOLTAGE MONOLITHIC BUCK(STEP-DOWN)

Part Number	Description	Operating Voltage (V)	Output Current (A)	Supply Current	Shutdown Current	Oscillation Frequency	Feedback Voltage (V)	OC	SCP	SS	UVLO	OTP	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS1301/A	1-ch Sync. Buck IC	2.5-6.5	0.8	300/30uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TSOT23-5L	Now	LT, Richtek	LT3406, RT8008, AP1006	●
AS1302/A	1-ch Sync. Buck IC	2.5-6.5	0.8	300/30uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TSOT23-5L	Now	Torex, Richtek	TX9216, RT8009	●
AS1306	1-ch Sync. Buck IC	2.5-6.5	1.2	300uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	SOT89-5L	Now			
AS1307	1-ch Sync. Buck IC	2.5-6.5	1.5	300uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TDFN-10L, MSOP-	Now	AATI	AAT1145(1.2MHz, 1.5A, Sync. Buck IC)	●
AS1308	1-ch Sync. Buck IC	2.5-6.5	2.0	300uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TDFN-10L, MSOP-	Now	AATI	AAT1153(1.2MHz, 2A, Sync. Buck IC)	●
AS1309	1-ch Sync. Buck IC	2.5-6.5	3.0	300uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TDFN-10L, MSOP-	Q1' 10	PAM	PAM2307(1.2MHz, 3A, Sync. Buck IC)	●
AS1310	2-ch Sync. Buck IC	2.5-6.5	2 * 0.8	500uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TDFN-10L	Now	MPS, CAT, Eutek	MP2109, CAT7117, EUT3409	●
AS1312	2-ch Sync. Buck IC	2.5-6.5	2 * 1.2	500uA	0.1uA	1.5MHz	0.6V	✓	✓	✓	✓	✓	-40-85°C	TDFN-10L	Q1' 10			

MONOLITHIC BOOST(STEP-UP)

Part Number	Description	Operating Voltage (V)	Output Current (A)	Supply Current	Shutdown Current	Oscillation Frequency	Feedback Voltage (V)	OC	SCP	SS	UVLO	OTP	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS2001	Asyn. Boost Controller	1.8-15	Ext.	5mA	0.1uA	1MHz	0.5V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now	Fujitsu	MB3800	●
AS2011	Asyn. Boost IC	2.5-5.5	1.6A	2mA	0.1uA	640K/1.2MHz	1.24V(2%)	✓	✓	✓	✓	✓	-40-85°C	MSOP-8L	Q1' 10	Maxim...	MX1790, RT9270, AAT1102, AT1780, MF	●
AS2012	Asyn. Boost IC	2.5-5.5	2.0A	2mA	0.1uA	640K/1.2MHz	1.24V(2%)	✓	✓	✓	✓	✓	-40-85°C	MSOP-8L	Q1' 10			
AS2015	Asyn. Boost IC	2.5-5.5	750mA	2mA	0.1uA	1.2MHz	1.24V(2%)	✓	✓	✓	✓	✓	-40-85°C	TSOT23-6L	Q1' 10			
AS2300	Sync. Boost IC	0.85-5.5	750mA	300uA	0.1uA	1.2MHz	1.23V(2%)	✓	✓	✓	✓	✓	-40-85°C	TSOT23-6L	Now	LinearTech	LT3400	●

BATTERY CHARGERS

Part Number	Description	Operating Voltage (V)	Output Current (A)	Output Voltage (V)	Number of Cells (Series)	Type of Charger	Charge Termination	OC	SCP	SS	UVLO	OTP	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS3020	Linear Battery Charger	4.25~6.5	0.8	4.2V	1	Linear	C/10	✓	✓	✓	✓	✓	-40-85°C	SOT23-5L	Now	LinearTech	LT4054	●
AS3025	Linear Battery Charger	4.25~6.5	1.0	4.2V	1	Linear	C/10	✓	✓	✓	✓	✓	-40-85°C	MSOP-8L(EP)	Q1' 10			

CONSTANT CURRENT LED DRIVERS

Part Number	Description	Operating Voltage (V)	Output Current (A)	Supply Current	Shutdown Current	Oscillation Frequency	Feedback Voltage (V)	OC	SCP	SS	UVLO	OTP	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS3110	1.5A Buck LED Driver	4-40	1.5	4mA	4mA	200K	0.3V(10%)	✓	✓	✓	✓	✓	-40-85°C	TO252-5L	Now	AMC	AMC7150	●
AS3140	2.0A Buck LED Driver	3.6-25	2.0	3mA	1uA	320KHz	0.25V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now	AX	AX2002	●
AS3150	3.0A Buck LED Driver	3.6-25	3.0	3mA	1uA	320KHz	0.25V(2%)	✓	✓	✓	✓	✓	-40-85°C	SOP-8L	Now	AX	AX2003	●
AS3160	2.0A Buck LED Driver	4.75-23	2.0	3mA	1uA	1.4MHz	0.25V(2%)	✓	✓	✓	✓	✓	-40-85°C	MSOP-10L, SOP-8L	Q2' 10			
AS3800	0.75A Boost LED Driver	2.5-5.5	0.75	2mA	0.1uA	1.2MHz	0.25V(2%)	✓	✓	✓	✓	✓	-40-85°C	TSOT23-6L	Q1' 10			

Note: OCP ---- Over Current Protection SCP ---- Short Circuit Protectio SS ----- Soft Start UVLO ---- Under Voltage Lockout OTP ---- Over Temperature Protection

Hall Effect Sensor



MICRO POWER, OMNIPOLAR SWITCH

Part Number	Description	Operating Voltage (V)	Output Current (mA)	Supply Current	Operation Time	Standby Time	Duty Cycle	Bops (mT)	Brps (mT)	Bopn (mT)	Brpn (mT)	Bhy (mT)	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS60	Low Power Hall Switch	2.4~5.5	2.5	3uA	60us	150ms	0.04%	5.5	4.5	-5.5	-4.5	1.0	-40~85°C	TSOT23-3L, SIP-3L	Now	Infineon, Diodes	TLE4913, A180	●
AS61	Low Power Hall Switch	2.4~5.5	2.5	3uA	60us	150ms	0.04%	2.5	1.5	-2.5	-1.5	1.0	-40~85°C	TSOT23-3L, SIP-3L	Now	Infineon, Diodes	TLE4913, A180	●
AS70	Programmable Hall Switc	2.4~5.5	2.5	3uA	60us	150ms	0.04%	5.5	4.5	-5.5	-4.5	1.0	-40~85°C	SOT23-6L	Now	Infineon	TLE4917	●
AS80	Low Power Hall Switch	2.4~5.5	2.5	3uA	60us	150ms	0.04%	2.5	1.5	-2.5	-1.5	1.0	-40~85°C	TSOT23-3L, SIP-3L	Q1' 10	Doides	AH1883	
AS90	Latched Hall Sensor	2.4~5.5	15	56uA	27us	640us	4%	8		-8		8	-40~86°C	TSOT23-3L, SIP-3L	Q2' 10	Panasonic	AN48840/41B	

HIGH TEMPERATURE, HIGH SENSITIVE HALL POSITION SENSOR

Part Number	Description	Operating Voltage (V)	Output Current (mA)	Supply Current	Saturation Volt. at 20mA (V)	Reverse Polarity Protection	Bop (mT)	Brp (mT)	Bhy (mT)	Operating Temperature (°C)	Package	Available	Competitor	Part Number & Features	Pin to Pin
AS413	Latched Hall Sensor	3.5~28	50	4.5mA	0.25	✓	7	-7	10	-40~150°C	SIP-3L	Now	Honeywell	SS41, SS413	●
AS443	Unlatched Hall Sensor	3.5~28	50	4.5mA	0.25	✓	15	5	10	-40~150°C	SIP-3L	Now	Honeywell, Allegro	SS443, A3144	●
AS550	CMOS Latched Hall senso	2.4~18	50	3.0mA	0.25	✓	2.5	-2.5	5	-40~150°C	TSOT23-3L, SIP-3L	Q1' 10	Melexis	US4881	●

Note: 1mT=10Guass