



## SILICON ENERGY----Powering the Future

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矽力杰原厂一级代理



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### Introduction of Silergy

Silergy Corp. is founded by a group of technology innovators and business leaders from Silicon Valley. Top design leaders average 20 years' experience. All founders have excellent track record in business, technology and engineering.

Our power IC products are made by the industry leading technology. They are widely used in automotive, computer, television and other devices.

Our products are intended to improve efficiency and to conserve the energy. We are committed to providing the industry leading performance with the affordable solution cost.



### Product Category

- High Voltage Step Down Regulator
- Dual Output Regulator
- Low Voltage Step Down Regulator
- Step Up Regulator
- DC-DC PWM Controller
- Protection Switch
- LED Backlight Regulator
- LED Lighting Driver
- AC-DC Primary Side Controller
- Synchronous Rectifier Controller
- Power Management ICs
- LDO Regulator
- Battery Charger
- TVS
- Surge
- EMI

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## Low Voltage Single Output Step Down Regulator (Power Switch Integrated)

Part Number	Function	Vin (V)	Iout (A)	Fsw (MHz)	VREF(V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY8001	Step Down Reg	2.0-5.5	0.6	1.5	0.6	300	250	Int SS/Comp	SOT23-5
SY8002	Step Down Reg	2.7-5.5	2	1	0.6	110	80	Int SS/Comp,PG, Latch SCP/OVP	SOT23-6
SY8002A	Step Down Reg	2.7-5.5	2	1	0.6	110	80	Int SS/Comp,PG	SOT23-6
SY8002B	Step Down Reg	2.7-5.5	1.5	1	0.6	110	80	Int SS/Comp,PG, Latch SCP/OVP	SOT23-6
SY8002E	Step Down Reg	2.7-5.5	2	1	0.6	110	80	Int SS/Comp,PG, Force CCM	SOT23-6
SY8003	Step Down Reg	2.7-5.5	3	1	0.6	110	80	Int SS/Comp,PG, Latch SCP/OVP	DFN2x2-8
SY8003A	Step Down Reg	2.7-5.5	3	1	0.6	110	80	Int SS/Comp,PG	DFN2x2-8
SY8003C	Step Down Reg	2.7-5.5	3	3	0.6	110	80	Int SS/Comp,PG	DFN2x2-8
SY8003E	Step Down Reg	2.7-5.5	3	1	0.6	110	80	Int SS/Comp,PG	DFN2x2-8
SY8003L	Step Down Reg	2.7-5.5	2	1	0.6	120	90	Int SS/Comp,PG	DFN2x2-8
SY8007	Step Down Reg	2.5-5.5	1	1.5	0.6	250	200	Prog Iin Limit, No Rsen	SOT23-6
SY8008A	Step Down Reg	2.5-5.5	0.6	1.5	0.6	300	250	Int SS/Comp	SOT23-5, TSOT23-5
SY8008B	Step Down Reg	2.5-5.5	1	1.5	0.6	250	200	Int SS/Comp	SOT23-5, TSOT23-5
SY8008C	Step Down Reg	2.5-5.5	1.2	1.5	0.6	200	150	Int SS/Comp	SOT23-5
SY8008D	Step Down Reg	2.5-5.5	1	1.5	0.6	250	200	Int SS/Comp, ultra-high eff @ light load	SOT23-5
SY8009A	Step Down Reg	3~5.5	1.5	1.5	0.6	180	120	Int SS/Comp	SOT23-5
SY8009B	Step Down Reg	3~5.5	2	1	0.6	100	80	Int SS/Comp	SOT23-6
SY8010	Step Down Reg	2.5-5.5	1	1.5	0.6	200	150	Int SS/Comp	DFN2x2-6
SY8010A	Step Down Reg	2.5-5.5	1	1.5	0.6	200	150	Int SS/Comp	QFN3x3-16
SY8010B	Step Down Reg	2.5-5.5	1	1.5	0.6	200	150	Int SS/Comp, fixed 3.3Vout	DFN2x2-6
SY8010H	Step Down Reg	2.5-5.5	1.5	1.5	0.6	180	120	Int SS/Comp	DFN2x2-6
SY8010Z	Step Down Reg	2.5-5.5	1	1.5	0.6	200	150	Int SS/Comp	DFN2x2-6
SY8011A	Step Down Reg	2.5-5.5	1	1.5	0.6	230	150	Int SS/Comp	DFN1.5x1.5-6
SY8011B	Step Down Reg	2.5-5.5	1.5	1.5	0.6	210	130	Int SS/Comp,	DFN1.5x1.5-6
SY8012A	Step Down Reg	3-5.5	2	1	0.6	150	120	Int SS/Comp, PG	SO8E
SY8012B	Step Down Reg	3-5.5	2.5	1	0.6	120	100	Int SS/Comp, PG	SO8E
SY8013	Step Down Reg	3-5.5	3	1	0.6	110	70	Int SS/Comp, PG	SO8E
SY8014	Step Down Reg	2.7-5.5	4	1	0.6	100	70	Int SS/Comp	SO8E
SY8015A	Step Down Reg	2.7-5.5	5	1	0.6	50	40	Int SS/Comp	SO8E
SY8017	Step Down Reg	2.5-5.5	1.5	1.5	0.6	180	120	Prog Iin Limit, No Rsen	DFN2x2-6
SY8027	Step Down Reg	2.5-5.5	1.2	1.5	0.6	200	150	Int SS/Comp	SOT23-6
SY8030	Step Down Reg	2.5-5.5	1.5	2.25	0.6	200	150	Int SS/Comp, Ext Mode	DFN2x2-6
SY8031L	Step Down Reg	2.5-5.5	0.6	2.25	0.6	300	200	Int SS/Comp	SOT23-5
SY8031	Step Down Reg	2.5-5.5	1.2	2.25	0.6	200	150	Int SS/Comp	SOT23-5
SY8032	Step Down Reg	2.7-5.5	2	1	0.6	100	80	Int SS/Comp, PG	SOT23-6
SY8032E	Step Down Reg	2.7-5.5	2.5	1	0.6	100	80	Int SS/Comp, Force CCM	SOT23-6
SY8035	Step Down Reg	2.7-5.5	5	1	0.6	50	40	SS, Int Comp, PG	DFN3x3-10
SY8036	Step Down Reg	2.7-5.5	6	1	0.6	40	35	SS, Int Comp, PG	DFN3x3-10
SY8036H	Step Down Reg	2.7-5.5	6	1	0.6	36	28	SS, Int Comp, PG, 6A DC, 8A Peak	DFN3x3-10
SY8036L	Step Down Reg	2.7-5.5	6	1	0.6	40	30	SS, Int Comp, PG, Latch SCP&OVP	DFN3x3-10



# SILICON ENERGY----Powering the Future

## Low Voltage Single Output Step Down Regulator (Power Switch Integrated)

Part Number	Function	Vin (V)	Iout (A)	Fsw (MHz)	VREF(V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY8037	Step Down Reg	2.7~5.5	6	1	0.6	40	35	2-bit VID, Int Comp, PG, Latch SCP	DFN3x3-12
SY8037A	Step Down Reg	2.7~5.5	6	1	0.6	40	25	2-bit VID, Int Comp, PG, Latch SCP	DFN3x3-12
SY8037B	Step Down Reg	2.7~5.5	6	1	0.6	40	25	2-bit VID, Int Comp, PG, Latch SCP&OVP	DFN3x3-12
SY8037C	Step Down Reg	2.7~5.5	6	1	0.6	40	25	2-bit VID, Int Comp, PG, Latch SCP&OVP	DFN3x3-12
SY8037D	Step Down Reg	2.7~5.5	6	1	0.6	40	25	2-bit VID, Int Comp, PG, Latch SCP&OVP	DFN3x3-12
SY8041	Step Down Reg	2.5~5.5	1.5	1.5	0.6	200	150	Int SS/Comp, PG	DFN2x2-6
SY8042	Step Down Reg	2.5~5.5	2.5	1	0.6	110	80	Int SS/Comp	QFN3x3-16
SY8043	Step Down Reg	2.5~5.5	3	1.25	0.6	75	55	Int SS/Comp, PG, Ultra Low IQ	QFN3x3-16
SY8047	Step Down Reg	2.5~5.5	4	1.25	0.6	75	55	Int SS/Comp, PG, Ultra Low IQ	QFN3x3-16
SY8047L	Step Down Reg	2.5~5.5	3	1.25	0.6	75	55	Int SS/Comp, PG, Ultra Low IQ	QFN3x3-16
SY8051	Step Down Reg	2.5~5.5	0.6	1.5	0.6	250	200	Int SS/Comp, PG	DFN2x2-6
SY8058	Step Down Reg	2.5~5.5	2	2	0.6	150	100	Int SS/Comp, PG	QFN3x3-16
SY8061A	Step Down Reg	2.5~5.5	1	1.5	0.6	260	170	Int SS/Comp	DFN2x2-6
SY8061B	Step Down Reg	2.5~5.5	1	1.5	0.6	260	170	Int SS/Comp	DFN2x2-6
SY8063	Step Down Reg	2.7~5.5	3.5	1	0.6	85	65	Int SS/Comp, PG	DFN3x3-10
SY8063B	Step Down Reg	2.7~5.5	3.5	1	0.6	85	65	Int SS/Comp, PG, Output discharge at shutdown	DFN3x3-10
SY8065L	Step Down Reg	2.5~5.5	1	1.5	0.6	250	200	Int SS/Comp, PG	SOT23-6
SY8065	Step Down Reg	2.5~5.5	1.5	1.5	0.6	180	120	Int SS/Comp, PG	SOT23-6
SY8071	Step Down Reg	2.7~5.5	1	2	0.6	260	170	Int SS/Comp	SOT23-5
SY8073	Step Down Reg	2.7~5.5	3	1	0.6	120	90	Int SS/Comp	SO8E
SY8075	Step Down Reg	2.5~6.5	1	1.5	0.6	260	170	Int SS/Comp	DFN2x2-6
SY8078	Step Down Reg	2.7~5.5	0.6	3	0.6	350	250	MODE pin control V <sub>OUT</sub> , 1.2V/1.8V	DFN1.45x1-6
SY8078A	Step Down Reg	2.7~5.5	0.6	3	0.6	350	250	MODE pin control V <sub>OUT</sub> , 1.2V/1.8V	DFN1.45x1-6
SY8079	Step Down Reg	2.7~6.5	3	1	0.6	125	95	Int SS/Comp	SOT23-5
SY8079P	Step Down Reg	2.7~6.5	2	1	0.6	125	95	Int SS/Comp, PG	SOT23-6
SY8080	Step Down Reg	2.5~5.5	1	3	0.6	270	170	Int SS/Comp	SOT23-5
SY8081	Step Down Reg	2.5~5.5	1	2.5	0.6	230	150	Int SS/Comp	DFN1.5x1.5-6
SY8082P	Step Down Reg	3~5.5	2	1	0.6	130	100	Int SS/Comp, PG	SO8
SY8083P	Step Down Reg	3~5.5	3	1	0.6	100	70	Int SS/Comp, PG	SO8E
SY8084	Step Down Reg	2.5~5.5	1	1.5	0.6	260	170	Int SS/Comp	SOT23-5
SY8088	Step Down Reg	2.5~5.5	1	1.5	0.6	260	170	Int SS/Comp	SOT23-5
SY8089	Step Down Reg	2.7~5.5	2	1	0.6	110	80	Int SS/Comp, Latch SCP/OVP	SOT23-5
SY8089A	Step Down Reg	2.7~5.5	2	1	0.6	110	80	Int SS/Comp	SOT23-5
SY8805A	Step Down Reg	3~5.5	5	1	0.6	35	15	Int SS/Comp, PG	DFN2x2-8
SY8806	Step Down Reg	3~5.5	6	1.1	0.6	35	15	Int SS/Comp, PG	DFN2x2-8
SY8809	Step Down Reg	3~5.5	6	1	0.6	35	15	Int SS/Comp, PG, 6A continuous, 9A peak current capability	DFN2x2-8
SY8823	Step Down Reg	2.5~5.5	3.5	2	0.6	55	35	Int SS/Comp, PG	QFN2x1.5-8
SY8825	Step Down Reg	2.5~5.5	5	2	0.6	55	35	Int SS/Comp, PG	QFN2x1.5-8
SY8827B	Step Down Reg	2.6~5.5	6	2.4	/	17	28	Programmable Output Voltage	CSP1.56*1.96-20
SY8827C	Step Down Reg	2.6~5.5	6	2.4	/	17	28	Programmable Output Voltage	CSP1.56*1.96-20
SY8868	Step Down Reg	2.7~5.5	6	1	0.6	35	15	Int SS/Comp, PG, Latch off mode	QFN2x2-10



## Low Voltage Dual Output Step Down Regulator

Part Number	Function	Vin (V)	Iout (A)	Fsw (MHz)	V <sub>REF</sub> (V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY8020	Dual Step Down Reg	2.5-5.5	1	1.5	0.6	200	150	Dual 1A output Individual EN, Int SS/Comp	DFN3x3-12
SY8020H	Dual Step Down Reg	2.5-5.5	1.5	1.5	0.6	180	120	Dual 1.5A output Individual EN, Int SS/Comp	DFN3x3-12
SY8021	Dual Step Down Reg	3-5.5	1.5	1.5	0.6	200	150	Dual 1.5A output Individual EN, Int SS/Comp	SO8E
SY8021L	Dual Step Down Reg	3-5.5	1	1.5	0.6	250	200	Dual 1A output Individual EN, Int SS/Comp	SO8E
SY8022	Dual Step Down Reg	3-5.5	2.5	1	0.6	150	100	Dual 2.5A output Individual EN, Int SS/Comp	SO8E
SY8022L	Dual Step Down Reg	3-5.5	2	1.5	0.6	180	120	Dual 2A output Individual EN, Int SS/Comp	SO8E
SY8022L1	Dual Step Down Reg	2.7-5.5	2	1	0.6	120	90	Dual 2A output Individual EN, Int SS/Comp	SO8E
SY8023	Dual Step Down Reg	3-5.5	3	1	0.6	110	80	Dual 3A output Individual EN, Int SS/Comp	SO8E
SY8024	Dual Step Down Reg	2.7-5.5	3	1	0.6	105	85	Dual 3A output Individual EN, Int SS/Comp	DFN3x3-12
SY8025	Dual Step Down Reg	2.5-5.5	1	1.5	0.6	260	170	Dual 1.5A output Individual EN, Int SS/Comp	SO8E
SY8029	Dual Step Down Reg	2.5-5.5	2	2	0.6	125	100	Dual 2A output Individual EN, Int SS/Comp, Low 45 uA IQ	TSOT23-8FC
SY8060	Dual Step Down Reg	2.5-5.5	1	1.5	0.6	260	170	Dual 1A output Individual EN, Int SS/Comp	DFN3x3-12
SY8092A	Dual Step Down Reg	2.5-5.5	1	2	0.6	220	180	Dual 1A output Individual EN, Int SS/Comp, Low 35 uA IQ	DFN3x3-10

## Low Voltage Single Output Step Down Regulator (Power Inductor Integrated)

Part Number	Function	Vin (V)	Iout (A)	Fsw (MHz)	V <sub>REF</sub> (V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY98081	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Output Voltage Adjustable	QFN2x1.5-8
SY98081A	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 1.2V <sub>OUT</sub>	QFN2x1.5-8
SY98081B	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 1.5V <sub>OUT</sub>	QFN2x1.5-8
SY98081C	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 1.8V <sub>OUT</sub>	QFN2x1.5-8
SY98081D	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 2.5V <sub>OUT</sub>	QFN2x1.5-8
SY98081E	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 3.3V <sub>OUT</sub>	QFN2x1.5-8
SY98081F	Step Down Reg	2.5-5.5	1.3	3	0.6	230	150	Fixed 1.0V <sub>OUT</sub>	QFN2x1.5-8

## High Voltage Single Output Step Down Regulator (Power Switch Integrated)

Part Number	Function	Vin (V)	Iout (A)	Fsw (MHz)	V <sub>REF</sub> (V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY8100	Step Down Reg	4.5-16	1.2	0.5	0.6	350	150	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8100A	Step Down Reg	4.5-16	2	0.5	0.6	170	160	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8102A	Step Down Reg	4.5-18	2.4	0.5	0.6	160	140	Int SS/Comp, Pseudo-constant frequency	DFN2x2-6
SY8104	Step Down Reg	4.5-18	4	0.5	0.6	50	30	Int SS/Comp, Pseudo-constant frequency	TSOT23-6
SY8105	Step Down Reg	4.5-18	5	0.5	0.6	50	30	Int SS/Comp, Pseudo-constant frequency	TSOT23-6
SY8106A	Step Down Reg	4.5-18	6	0.2-1	0.6	50	15	Int SS/Comp, Pseudo-constant frequency	QFN3x3-20
SY8113	Step Down Reg	4.5-18	3	0.5	0.6	80	40	Int SS/Comp, Pseudo-constant frequency	TSOT23-6
SY8113B	Step Down Reg	4.5-18	3	0.5	0.6	80	40	Int SS/Comp, Pseudo-constant frequency	TSOT23-6
SY8113D	Step Down Reg	4.5-18	3	0.5	0.6	80	40	Pseudo-constant frequency, PG	TSOT23-8
SY8113E	Step Down Reg	4.5-18	3	0.5	0.6	80	40	Int SS/Comp, Pseudo-constant frequency	TSOT23-8
SY8120	Step Down Reg	4.5-18	2	0.5	0.6	170	160	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8120B1	Step Down Reg	4.5-18	2	0.5	0.6	130	120	Int SS/Comp, Pseudo-constant frequency	SOT23-6



## SILICON ENERGY----Powering the Future

### High Voltage Single Output Step Down Regulator (Power Switch Integrated)

Part Number	Function	V <sub>in</sub> (V)	I <sub>out</sub> (A)	F <sub>sw</sub> (MHz)	V <sub>REF</sub> (V)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY8121	Step Down Reg	4.5-18	2	1	0.6	170	160	Int SS/Comp, Pseudo-constant frequency	SOT23-6/DFN2x2-6
SY8121B	Step Down Reg	4.5-18	2	1.2	0.6	170	160	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8121C	Step Down Reg	4.5-18	2	1.2	0.6	130	120	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8152	Step Down Reg	4~15	2	0.4	0.6	150	100	Int SS/Comp	SO8
SY8153	Step Down Reg	4~15	3	0.4	0.6	120	80	Int SS/Comp	SO8E
SY8171H	Step Down Reg	4~15	2	0.7	0.6	120	90	Int SS/Comp	SSOT23-6
SY8172	Step Down Reg	4~15	2	0.7	0.6	150	100	Int SS/Comp	SO8
SY8172Y	Step Down Reg	4~15	2	0.7	0.6	150	100	Int SS/Comp	SO8
SY8173	Step Down Reg	4~15	3	0.7	0.6	120	80	Int SS/Comp	SO8E
SY8173Y	Step Down Reg	4~15	3	0.7	0.6	120	80	Int SS/Comp	SO8E
SY8186	Step Down Reg	4~18	16	0.5	0.6	7.5	2.5	Int SS/Comp	QFN4x4-11
SY8200	Step Down Reg	6~24	0.6	0.5	0.6	420	200	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8201	Step Down Reg	4.5-27	1	0.5	0.6	350	150	Int SS/Comp, Pseudo-constant frequency	SOT23-6
SY8203	Step Down Reg	4.5-23	3	0.5	0.6	120	85	Int SS/Comp, Pseudo-constant frequency	DFN3x3-10
SY8203A	Step Down Reg	4.5-23	3	1	0.6	120	85	Int SS/Comp, Pseudo-constant frequency	DFN3x3-10
SY8204	Step Down Reg	4.5-30	4	0.5	0.6	80	50	Int Comp, Pseudo-constant frequency, EXT SS	SO8E
SY8205	Step Down Reg	4.5-30	5	0.5	0.6	70	40	Int Comp, Pseudo-constant frequency, EXT SS	DFN3x4-12/SO8E
SY8210B	Step Down Reg	4~28	8	0.6	0.6	20	10	Int SS/Comp, Pseudo-constant frequency	QFN3x3-10
SY8222	Step Down Reg	4.5~23	2	0.5	0.6	150	110	Int SS/Comp, Pseudo-constant frequency, EXT SS	DFN3x3-10
SY8223	Step Down Reg	4.5~23	3	0.5	0.6	120	85	Int SS/Comp, Pseudo-constant frequency, EXT SS	DFN3x3-10
SY8232	Step Down Reg	4.5-23	2	0.5	0.6	150	110	Int Comp, Pseudo-constant frequency, EXT SS	SO8
SY8233	Step Down Reg	4.5-23	3	0.5	0.6	130	90	Int Comp, Pseudo-constant frequency, EXT SS	SO8E
SY8234	Step Down Reg	4.5-23	4	0.4	0.6	120	85	Int Comp, Pseudo-constant frequency, EXT SS	SO8E
SY8243	Step Down Reg	4.5-23	3	0.75	0.6	120	85	Int SS/Comp, Pseudo-constant frequency	DFN3x3-10
SY8246	Step Down Reg	4.5-30	6	0.5	0.6	70	40	Int Comp, Pseudo-constant frequency, 5A DC, 6A Peak, EXT SS	DFN3x4-12
SY8246A	Step Down Reg	4.5-30	6	0.5	0.6	70	40	Int Comp, Pseudo-constant frequency, Latch SCP/OVP, 5A DC, 6A Peak,	DFN3x4-12
SY8290	Step Down Reg	5-40	0.3	2	0.6	2	/	Int SS/Comp	SOT23-6
SY8291	Step Down Reg	5-40	1.2	1.2	0.6	180	/	Int SS/Comp	SOT23-6
SY8292	Step Down Reg	5-40	2	0.8	0.6	180	/	Int SS/Comp	SOT23-6
SY8366A	Step Down Reg	4~28	6	0.8	0.6	40	20	Int Comp, Pseudo-constant frequency, Hic-cup SCP/OVP, 6A DC, 12A	QFN3x3-12



# SILICON ENERGY----Powering the Future

## Single Output Step Up Regulator (Power Switch Integrated)

Part Number	Function	Vin (V)	Isw(A)	Vout,max(V)	Fsw (MHz)	V <sub>REF</sub> (V)	Main FET Ron (mΩ)	Sync FET Ron (mΩ)	Special Function	Package
SY7060	Step Up Reg	0.7-5	0.4	5.25	Adaptive	0.51	450	800	Output Disconnect, Very Low Iq=18uA	SC70
SY706L	Step Up Reg	0.7-5	0.4	5.25	Adaptive	0.51	450	800	Output Disconnect, Very Low Iq=18nA Low Output Disconnect @Shutdown	SC70
SY7063	Step Up Reg	1.8~5.25	3	5.5	0.5	1.2	36	40	Auto output discharge function	QFN2x2-10
SY7065	Step Up Reg	1.8~5.25	5	5.5	0.5	1.2	20	40	No output discharge function	QFN2X2-10
SY7065A	Step Up Reg	1.8~5.25	5	5.5	0.5	1.2	20	40	Auto output discharge function	QFN2X2-10
SY7066	Step Up Reg	1.8~5.25	6	5.5	0.5	1.2	20	40	No output discharge function	QFN2X2-10
SY7066A	Step Up Reg	1.8~5.25	6	5.5	0.5	1.2	20	40	Fixed 3.3V <sub>OUT</sub> , Ultra low 5.5uA Iq	SOT23-5
SY7070	Step Up Reg	0.7~5.0	0.35	Fixed 3.3V <sub>OUT</sub>	Adaptive	/	500	700	Fixed 3.0V <sub>OUT</sub> , Ultra low 5.5uA Iq	SOT23-5
SY7070A	Step Up Reg	0.7~5.0	0.35	Fixed 3.0V <sub>OUT</sub>	Adaptive	/	500	700	Output Disconnect @Shutdown	SOT23-6
SY7080	Step Up Reg	0.9-4	1.8	4	1.2	1.2	90	200	No output discharge function	DFN2x3-8
SY7088	Step Up Reg	2.3~5.0	3	5.5	1	1.2	70	85	Int SS/COMP	SOT23-6
SY7101	Step Up Reg	2-6	1.5	6	1	0.6	160	NA	Int SS/COMP	SOT23-6
SY7102	Step Up Reg	2-6	2.5	6	1	0.6	120	NA	Int SS/COMP	SOT23-6
SY7103	Step Up Reg	2-6	3	6	1	0.6	100	NA	Int SS/COMP	DFN2x2-6
SY7104	Step Up Reg	2-6	4	6	1	0.6	100	NA	Int SS/COMP	DFN3x3-10
SY7108	Step Up Reg	1.8-3.3	2	3.6	1	0.6	200	NA	Int SS/COMP	SOT23-6
SY7109	Step Up Reg	1.8-3.3	2	7	1	0.6	200	NA	Int SS/COMP	SOT23-6
SY7112	Step Up Reg	2-6	2.5	6	1	0.6	120	NA	Int SS/COMP, DC Current Limit	SOT23-6
SY7113	Step Up Reg	2-6	3	6	1	0.6	120	NA	Int SS/COMP, DC Current Limit	SOT23-6
SY7152	Step Up Reg	3-8	2	16	1	0.6	150	NA	Int SS/COMP	SOT23-6
SY7203	Step Up Reg	2.8-30	4	30	1	0.2	100	NA	Int SS/COMP	DFN3x3-10
SY7208	Step Up Reg	3-25	2	25	1	0.6	150	NA	Int SS/COMP	SOT23-6
SY7208A	Step Up Reg	3-25	2	25	1	0.6	150	NA	Comparable Pinout as SY7201	SOT23-6
SY7208C	Step Up Reg	2.5-25	0.6	25	1	0.6	150	NA	Int SS/COMP	SOT23-6
SY7209	Step Up Reg	1.8-25	2	25	1	0.6	180	NA	Int SS/COMP	SOT23-6
SY7210	Step Up Reg	3-25	2	25	1	0.6	150	NA	Input Current Limit	SOT23-6
SY7219	Step Up Reg	3.5-5.5	9	36	Adaptive	1.25	60	NA	Int SS/COMP	DFN3x3-10
SY7290A	Step Up Reg	2.5-7	2	25	1	1	200	NA	Accurate output current limiting.	SOT23-6
SY7301	Step Up Reg	2.8-40	2	40	1	0.2	200	NA	PWM Dimming	TSOT23-6
SY7302	Step Up Reg	3-33	2	33	1	0.6	200	NA	PWM Dimming	SOT23-6
SY7302A	Step Up Reg	3-33	2	33	1	0.6	200	NA	PWM Dimming	SOT23-5
SY7304	Step Up Reg	3-33	4	33	1	0.6	120	NA	PWM Dimming	DFN3x3-10
SY7312	Step Up Reg	3-33	2	33	1	0.6	200	NA	PWM Dimming	SOT23-6
SY7388	Step Up Reg	3.5-30	2	30	0.85	1	200	NA	Accurate output current limiting.	SOT23-6



## Protection Switch

Part Number	Package	Enable Logic	OC	OV	No. of Channels	Vin(V)	Vout(V)	Iout(A)	Rds(mΩ)	Special Function
SY6288A	SOT23-5, SO8 MSOP8	H	Y	N	1	2.5~5.5	2.5~5.5	0.6	90	Output discharge at shutdown Reverse Blocking, OCB
SY6288B	SOT23-5, SO8 MSOP8	L	Y	N	1	2.5~5.5	2.5~5.5	0.6	80,90	Output discharge at shutdown Reverse Blocking, OCB
SY6288C	SOT23-5, SO8 MSOP8	H	Y	N	1	2.5~5.5	2.5~5.5	2	90	Output discharge at shutdown Reverse Blocking, OCB
SY6288D	SOT23-5, SO8 MSOP8	L	Y	N	1	2.5~5.5	2.5~5.5	2	80,90	Output discharge at shutdown Reverse Blocking, OCB
SY6280	SOT23-5	H	Y	N	1	2.4~5.5	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking, auto output discharge function
SY6280A	SOT23-5	H	Y	N	1	2.4~5.5	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking, NO output discharge function
SY6281	SOT23-5	L	Y	N	1	2.4~5.5	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking, auto output discharge function
SY6281A	SOT23-5	L	Y	N	1	2.4~5.5	2.4~5.5	0.4~2	63	Programmable current limit, reverse blocking, NO output discharge function
SY6283	DFN1.2×1.6-4	H	Y	N	1	2.5~5.5	2.5~5.5	3	60	Reverse blocking No output discharge function
SY6283A	DFN1.2×1.6-4	H	Y	N	1	2.5~5.5	2.5~5.5	3	60	Reverse blocking Auto output discharge function
SY6811	4 ball CSP	H	Y	N	1	1.05~1.95	1.05~1.95	1	45@VIN=1.2V 35@VIN=1.8V	Auto output cap discharge function
SY6813	6 ball CSP	H	Y	N	1	1.2~5.5	1.2~5.5	3	22	Auto output cap discharge function
SY6813A	6 ball CSP	H	Y	N	1	1.2~5.5	1.2~5.5	3	22	No output cap discharge function
SY6818	CSP1.73x1.73-12	H	Y	Y	1	2.5~30	2.5~30	3	53	Programmable OVP, Thermal Shutdown Protection& Auto Recovery , Integrated Reverse Blocking FET, Load current monitor
SY6820	SOT23-5	H	Y	N	1	0.6~3.6	0.6~3.6	3	45	Programmable current limit, reverse blocking output discharge at shutdown
SY6821	SOT23-5	H	Y	N	1	0.6~3.6	0.6~3.6	3	45	Programmable turn on delay, output discharge at shutdown
SY6821A	DFN 1.5×1.5-6	H	Y	N	1	0.6~3.6	0.6~3.6	4	16	Programmable turn on delay, output discharge at shutdown
SY6822	QFN2x2-10	L	Y	N	1	3~6.6	3~6.6	2	60	Bidirectional Current Limit Switch
SY6823	DFN2x2-8	H	Y	N	2	0.6~5.5	0.6~5.5	4	28	Programmable turn on delay&ramp-up time, output discharge at shutdown
SY6827	DFN2x2-8	H	Y	N	2	0.6~5.5	0.6~5.5	6	15	Programmable turn on delay&softstart. output discharge at shutdown
SY6828	DFN2x2-8	H	Y	N	1	0.6~5.5	0.6~5.5	12	8	Programmable turn on delay&softstart. output discharge at shutdown
SY6874	DFN3x3-10	H	Y	Y	1	2.5~30	2.5~14	4	50	Programmable softstart&current limit;OVP,3.3V/5V/12V selectable clamping output





## SILICON ENERGY----Powering the Future

### Protection Switch

Part Number	Package	Enable Logic	OC	OV	No. of Channels	Vin(V)	Vout(V)	Iout(A)	Rds(mΩ)	Special Function
SY6875A	DFN3x3-10	H	Y	Y	1	2.5~30	2.5~14	5	40	Programmable softstart&current limit,OVP,3.3V/5V/12V selectable clamping output
SY6875C	DFN3x3-10	H	Y	Y	1	2.5~30	2.5~14	5	40	Programmable softstart&current limit,OVP,3.3V/5V/12V selectable clamping output
SY6875D	DFN3x3-10	H	Y	Y	1	2.5~30	2.5~10	5	40	Programmable softstart&current limit,OVP,3.3V/5V/9V selectable clamping output
SY6875F	DFN3x3-10	H	Y	Y	1	2.5~30	2.5~14	5	50	Programmable softstart&current limit,OVP,3.3V/5V/12V selectable clamping output
SY6880A	CSP2x1.8-12	H	N	Y	1	2.5~28	2.5~7	High Current	38	Programmable High Current Overvoltage with threshold :6.8V +/-2.9%, Integrated Reverse Blocking FET
SY6880B	CSP2x1.8-12	H	N	Y	1	2.5~28	2.5~7	High Current	38	Programmable High Current Overvoltage with threshold :5.825V +/-3%, Integrated Reverse Blocking FET
SY6880C	CSP2x1.8-12	L	N	Y	1	2.5~28	2.5~7	High Current	38	Internal 6.8V Default OVP Threshold Integrated Reverse Blocking FET
SY6882A	DFN2x2-8	L	Y	Y	1	3~23	3~5.5	2	100	Internal Fixed Over-Voltage Protection Threshold at 7.1V, Output Clamp
SY6882B	DFN2x2-8	L	Y	Y	1	3~23	3~5.5	2	100	Programmable OVP Threshold, Thermal Shutdown Protection& Auto Recovery, OVP&OTP Fault Flag, Output Clamp
SY6883	SOT23-6	L	Y	Y	1	0~23	0~5.5	2	100	Programmable Over-Voltage Protection Threshold&Thermal Shutdown Protection& Auto Recovery ,OVP &OTP Fault Flag, Output Clamp
SY6895A	DFN3x3-10	H	Y	Y	1	2.5~12	2.5~6	5	40	Fixed Current Limit, Prog.SS, Selectable Input & Clamping Voltage Range
SY6895C	DFN3x3-10	H	Y	Y	1	2.5~12	2.5~6	5	40	Fixed Current Limit, Prog.SS, Selectable Input & Clamping Voltage Range
SY6895D	DFN3x3-10	H	Y	Y	1	2.5~12	2.5~6	5	40	Fixed Current Limit, Prog.SS, Selectable Input & Clamping Voltage Range

### DC-DC PWM Controller (External Switch)

Part Number	Vin (V)	Fsw (MHz)	VREF (V)	Function	Package
SY7901	3-25	0.5	1	Current mode DC/DC controller targeted for Boost, Sepic, Flyback and Forward applications with DC Input Current Limit	DFN3x3-10
SY7902	3-25	0.5	1	Current mode DC/DC controller targeted for both Boost and Sepic applications with DC Output Current Limit	DFN3x3-10
SY7902A	3-25	0.3	1	Current mode DC/DC controller targeted for both Boost and Sepic applications with DC Output Current Limit	DFN3x3-10





## SILICON ENERGY----Powering the Future

### Step Up LED Backlight Regulator(Integrated MOSFETs)

Part Number	V <sub>in</sub> (V)	Max LED Voltage Per String (V)	Max LED Current Per String (mA)	No. of Strings	F <sub>sw</sub> (MHz)	V <sub>REF</sub> (V)	Special Function	Package	Typical Application
SY7200	2.5-5.5	30	140	1	1	0.2	Dimming Freq.:100Hz-10kHz	SOT23-6	PAD, GPS, MID, Table
SY7200A	2.5-5.5	30	140	1	1	0.2	Dimming Freq.:20kHz-1MHz	SOT23-6	PAD, GPS, MID, Table
SY7201	3-5.5	30	300	1	1	0.2	Dimming Freq.:20kHz-1MHz	SOT23-6	PAD, GPS, MID, Table
SY7201A	3-5.5	30	300	1	1	0.2	Dimming Freq.:100Hz-10kHz	SOT23-6	PAD, GPS, MID, Table
SY7202	3-5.5	30	300	1	1	0.2	Analog	SO8E	PAD, GPS, MID, Table
SY7203	2.8-30	30	300	1	1	0.2	Dimming Freq.:20kHz-1MHz	DFN3X3-10	PAD, GPS, MID, Table
SY7204	2.8-30	30	300	1	1	0.2	Dimming Freq.:20kHz-1MHz	DFN3X3-10	PAD, GPS, MID, Table
SY7301	2.8-40	40	300	1	1	0.6	Dimming Freq.:20kHz-1MHz	SOT23-6	PAD, GPS, MID, Table
SY7700	8-15	No Limit	NA	1	1	0.2	PWM	SO8E	LED Lighting, Backlight
SY7701	3-25	No Limit	NA	1	0.5	0.2	PWM	DFN3x3-10/SOP10	PAD, GPS, MID, Table
SY7704	3-5.5	43	40	4	1	Adaptive	PWM	QFN3x3-16	NB, PAD, Table
SY7706	3-5.5	33	30	6	1	Adaptive	PWM	DFN3x3-16	NB, PAD, Table
SY7714	4.5-28	60	240	4	0.4	Adaptive	PWM	SOP16/E	NB, PAD, Table
SY7714A	4.5-28	60	240	4	0.2	Adaptive	PWM	SOP16/E	NB, PAD, Table
SY7714B	4.5-28	60	240	4	0.5	Adaptive	PWM	SOP16/E, Fault Indicator	NB, PAD, Table
SY7718	4.5-28	60	240	8	0.4	Adaptive	PWM	SOP20	NB, PAD, Table
SY7724	2.5-2.5	33	40	1	1	Adaptive	PWM	DFN3x3-16	NB, PAD, Table

### AC-DC Primary Side Controller

Part Number	Function	Package	V <sub>IN</sub> Range	Constant Output Current	Constant Output Voltage PSR	PFC	Opto-Coupler	QR Mode	Green Mode
SY5011	Green Mode Flyback Controller With Primary Side CV/CC Control	SO8	AC LINE	YES	YES	YES	YES	YES	YES
SY5012	Green Mode Flyback Controller With Primary Side CV/CC Control	SOT23-6	AC LINE	YES	YES	NO	YES	YES	YES
SY5013	Green Mode Flyback PFC Controller With Primary Side CC Limit and Opto-feedback for CV Regulation	SO8	AC LINE	YES	NO	YES	YES	YES	YES

### Synchronous Rectifier Controller

Part Number	Function	V <sub>dsmax</sub> (V)	Package	Note	Applications
SY5201	Smart Synchronous Rectification Controller	120	SO8	Suitable for Flyback in QRM/ DCM, Half /Full Bridge with LLC, Intelligent Control for Min Conduction of Body Diode in Syn Rectifier	AD/DC NB, Adapter, Open-Frame SMP, Battery Charger



## SILICON ENERGY----Powering the Future

### LED Lighting Driver

Part Number	Function	V <sub>in</sub> (V)	V <sub>sw</sub> , max (V)	I <sub>sw</sub> , max (A)	F <sub>sw</sub> (MHz)	V <sub>REF</sub> (V)	Syn Switch Ron (mΩ)	Main Switch Ron (mΩ)	Special Function	Package	Typical Applications
SY8702	Step Down	2.5-30	30	0.8	1	0.1	NA	200	PWM Dimming	SOT23-6	24V BUS Street Lamp, MR16
SY8703	Step Down	2.5-30	30	1.3	1	0.1	NA	200	PWM Dimming	SOT23-6	24V BUS Street Lamp, MR16
SY8006	Step Down	2.5-5.5	6	2.4	1.5	0.1	150	200	Int SS/Comp	SOT23-5	Portable Torch/Flash/Headlight Lamp
SY8710	Step Up/Down	3-30	30	2	1	0.1	NA	200	Analog Dimming	SOT23-6	GPS, MID
SY8711	Step Up/Down	3-30	30	2	1	0.1	NA	200	Analog Dimming	SO8/E	GPS, MID

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# SILICON ENERGY----Powering the Future

## AC-DC LED Lighting Driver

Part Number	Function	Package	Integrated FETs	Max Power	Dimming	VIN Range	PFC	Isolation	Opto-Coupler	Open LED Protection	Short LED Protection	Peak Efficiency	Typical Applications
SY58004	Flyback	SO8	500V	14W	NO	110V	AC LINE	YES	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb
SY58100A	Flyback	SO8	600V	4.5W	NO	AC LINE	YES	YES	NO	YES	YES	81%	Tube/PAR/Down Light /Bulb
SY58101A	Flyback	SO8	600V	5.5W	NO	AC LINE	YES	YES	NO	YES	YES	84%	Tube/PAR/Down Light /Bulb
SY58102/A	Flyback	SO8	600V	9.5W	NO	AC LINE	YES	YES	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58103/A	Flyback	SO8	600V	11W	NO	AC LINE	YES	YES	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58105A	Flyback	SO8	600V	14W	NO	AC LINE	YES	YES	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58106A	Flyback	SO8	600V	15W	NO	AC LINE	YES	YES	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb
SY58110	Flyback	SOT23-5	600V	5.5W	NO	AC LINE	NO	YES	NO	YES	YES	82%	Tube/PAR/Down Light /Bulb
SY58111	Flyback	SO8	600V	7.5W	NO	AC LINE	NO	YES	NO	YES	YES	84%	Tube/PAR/Down Light /Bulb
SY58120	Flyback	SOT23-5	600V	7W	NO	AC LINE	NO	YES	NO	YES	YES	80%	Tube/PAR/Down Light /Bulb
SY58121	Flyback	SO8	600V	8.5W	NO	AC LINE	NO	YES	NO	YES	YES	84%	Tube/PAR/Down Light /Bulb
SY58181	Buck	SOT23-5	350V	9.5W	NO	AC LINE	NO	NO	NO	YES	YES	89%	Tube/PAR/Down Light /Bulb
SY58182	Buck	SO8	350V	11W	NO	AC LINE	NO	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58200	Flyback	SO8	700V	3W	NO	AC LINE	YES	YES	NO	YES	YES	80%	Tube/PAR/Down Light /Bulb
SY58201	Flyback	SO8	700V	5W	NO	AC LINE	YES	YES	NO	YES	YES	80%	Tube/PAR/Down Light /Bulb
SY58202/A	Flyback	SO8	700V	8W	NO	AC LINE	YES	YES	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58203/A	Flyback	SO8	700V	10W	NO	AC LINE	YES	YES	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58241/A	Buck PFC, High Side Switch	SO8	500V	9W	NO	AC LINE	YES	NO	NO	YES	YES	85%	Tube/PAR/Down Light /Bulb
SY58242/A	Buck PFC, High Side Switch	SO8	500V	12W	NO	AC LINE	YES	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58243/A	Buck PFC, High Side Switch	SO8	500V	15W	NO	AC LINE	YES	NO	NO	YES	YES	86%	Tube/PAR/Down Light /Bulb
SY58244/A	Buck PFC, High Side Switch	SO8	500V	19W	NO	AC LINE	YES	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58281S	Buck	SOT23-5	500V	6.5W	NO	AC LINE	NO	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58281L	Buck	SOT23-5	500V	7.5W	NO	AC LINE	NO	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58291/A/Z	Buck PFC, Low Side Switch	SO8	500V	9W	NO	AC LINE	YES	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58292/A	Buck PFC, Low Side Switch	SO8	500V	12W	NO	AC LINE	YES	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58293/A/T	Buck PFC, Low Side Switch	SO8	500V	15W	NO	AC LINE	YES	NO	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58293Z	Buck PFC, Low Side Switch	SO8	500V	15W	NO	AC LINE	YES	NO	NO	YES	YES	88%	Tube/PAR/Down Light /Bulb
SY58294/A	Buck PFC, Low Side Switch	SO8	500V	19W	NO	AC LINE	YES	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58294Z	Buck PFC, Low Side Switch	SO8	500V	19W	NO	AC LINE	YES	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58295A	Buck PFC, Low Side Switch	SO8	500V	23W	NO	AC LINE	YES	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58296A	Buck PFC, Low Side Switch	SO8	500V	26W	NO	AC LINE	YES	NO	NO	YES	YES	93%	Tube/PAR/Down Light /Bulb
SY58541/A	Buck PFC, High Side Switch	SO8	600V	7.5W	NO	AC LINE	YES	NO	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58542/A	Buck PFC, High Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	YES	89%	Tube/PAR/Down Light /Bulb
SY58543/A	Buck PFC, High Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	YES	85%	Tube/PAR/Down Light /Bulb
SY58544/A	Buck PFC, High Side Switch	SO8	600V	15W	NO	AC LINE	YES	NO	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb



## SILICON ENERGY----Powering the Future

### AC-DC LED Lighting Driver

Part Number	Function	Package	Integrated FETs	Max Power	Dimming	VIN Range	PFC	Isolation	Opto-Coupler	Open LED Protection	Short LED Protection	Peak Efficiency	Typical Applications
SY58591/A	Buck PFC, Low Side Switch	SO8	600V	7.5W	NO	AC LINE	YES	NO	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb
SY58591Q	Buck PFC, High Side Switch	SO8	600V	3W	NO	AC LINE	YES	NO	NO	YES	YES	87%	Tube/PAR/Down Light /Bulb
SY58592/A	Buck PFC, Low Side Switch	SO8	600V	10W	NO	AC LINE	YES	NO	NO	YES	YES	90%	Tube/PAR/Down Light /Bulb
SY58593/A	Buck PFC, Low Side Switch	SO8	600V	13.5W	NO	AC LINE	YES	NO	NO	YES	YES	89%	Tube/PAR/Down Light /Bulb
SY58593Z	Buck PFC, Low Side Switch	SO8	600V	13.5W	NO	AC LINE	YES	NO	NO	YES	YES	89%	Tube/PAR/Down Light /Bulb
SY58594/A	Buck PFC, Low Side Switch	SO8	600V	16W	NO	AC LINE	YES	NO	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb
SY58594Z	Buck PFC, Low Side Switch	SO8	600V	16W	NO	AC LINE	YES	NO	NO	YES	YES	91%	Tube/PAR/Down Light /Bulb
SY58595A	Buck PFC, Low Side Switch	SO8	600V	18W	NO	AC LINE	YES	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb
SY58596A	Buck PFC, Low Side Switch	SO8	600V	23W	NO	AC LINE	YES	NO	NO	YES	YES	92%	Tube/PAR/Down Light /Bulb

### AC-DC LED Lighting Controller

Part Number	Function	Package	Dimming	VIN Range	PFC	Isolation	Opto-Coupler	QR Mode
SY5800/A/B/D	Single Stage Flyback PFC Controller With Primary Side Control	SO8/MSOP10	NO	AC LINE	YES	YES	NO	YES
SY5801/A	Single Stage Flyback PFC Controller With Primary Side Regulation and Traic dimming	SO8	Triac	AC LINE	NO	YES	NO	YES
SY5802/A	Single Stage Flyback PFC Controller With Primary Side Regulation and PWM/Analog dimming	SO8	PWM/Analog	AC LINE	YES	YES	NO	YES
SY5803	Single stage Buck-Boost PFC controller	SO8	NO	AC LINE	YES	NO	NO	YES
SY5804	Single Stage Floating Buck PFC Controller(Floating Switch)	SO8	NO	AC LINE	YES	NO	NO	YES
SY5804A/A1	Single Stage Buck PFC Controller(Floating Switch)	SO8	NO	AC LINE	YES	NO	NO	YES
SY5805	Single Stage BUCK-BOOST PFC Controller	SO8	YES	AC LINE	YES	NO	NO	YES
SY5806	Single Stage Buck PFC Controller With Primary Side Control PWM /Analog dimming	SO8	YES	AC LINE	YES	NO	NO	YES
SY5810/B/D	Single Stage Flyback PFC Controller With Primary Side Control	SOT23-6	NO	AC LINE	YES	YES	NO	YES
SY5813	Single Stage Buck-Boost PFC controller	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814	Single Stage Buck PFC Controller(Floating Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814A/A1	Single Stage Buck PFC Controller(Grounded Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814U	Single Stage Buck PFC Controller((Floating Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5814Z	Single Stage Buck PFC Controller(Floating Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5819	Single Stage Buck PFC Controller(Grounded Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5820	Single Stage Flyback PFC Controller With Primary Side Control	SOT23-6	NO	AC LINE	YES	YES	NO	YES
SY5824	Single Stage Buck PFC Controller(Floating Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES
SY5824A	Single Stage Buck PFC Controller(Grounded Switch)	SOT23-6	NO	AC LINE	YES	NO	NO	YES



## SILICON ENERGY----Powering the Future

### AC-DC CCCV Charger and Adapter

Part Number	Function	Package	Integrated FETs	Max Power	VIN Range	Isolation	Opto-Coupler	OCP Protection	OVP Protection	Energy star	Typical Applications
SY5002	PSR Flyback Controller	SO8	NO	<150W	AC LINE	YES	NO	YES	YES	Level 5	Charger and Adapter
SY5002B	PSR Flyback Controller with Cable Compensation	SO8	NO	<150W	AC LINE	YES	NO	YES	YES	Level 5	Charger and Adapter
SY5013	SSR Flyback Controller	SO8	NO	<150W	AC LINE	YES	YES	YES	YES	Level 5	Charger and Adapter
SY5015	SSR Flyback Controller	SO8	NO	<150W	AC LINE	YES	YES	YES	YES	Level 5	Charger and Adapter
SY50101	PSR Flyback	SO8	600V	6.5W	AC LINE	YES	NO	YES	YES	Level 6	Charger and Adapter
SY50102	PSR Flyback	SO8	600V	8W	AC LINE	YES	YES	YES	YES	Level 5	Charger and Adapter
SY50103	PSR Flyback	SO8	600V	12W	AC LINE	YES	NO	YES	YES	Level 6	Charger and Adapter
SY50103C	PSR Flyback	SO8	600V	12W	AC LINE	YES	NO	YES	YES	Level 6	Charger and Adapter
SY50105	PSR Flyback	SO8	600V	14W	AC LINE	YES	NO	YES	YES	Level 5	Charger and Adapter
SY50106	PSR Flyback	SO8	600V	18W	AC LINE	YES	NO	YES	YES	Level 5	Charger and Adapter
SY50133	PSR Flyback	SO8	600V	10.5W	AC LINE	YES	NO	YES	YES	Level 6	Charger and Adapter
SY50203	PSR Flyback	SO8	700V	12W	AC LINE	YES	NO	YES	YES	Level 5	Charger and Adapter
SY50544	Buck Converter	SO8	600V	8W	AC LINE	NO	NO	YES	YES	Level 5	AC/DC power supply
SY6174	PSR Flyback	SO8	200V	7.5W	POE 48V	YES	NO	YES	YES	Level 6	POE power supply
SY6177	PSR Flyback	SO8	200V	12W	POE 48V	YES	NO	YES	YES	Level 6	POE power supply

### Power Management ICs

Part Number	Vin(V)	Num ber of Channels	Application	Package	Integrated Function
SY7630	2.5-5.5	3	TFT LCD Pannel	QFN4x4-24	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, GPM
SY8630	4-20	3	Security CCD Camera power supply	DFN3x3-12	2 Buck converters and 1 Boost converter
SY8632	2-5	3	TCON Power System	QFN4x4-28	I2C controlled 3-channel Buck Regulators
SY8640A	2-5	5	3D Glass	QFN4x4-28	1 Boost Output with analog switches for 3D glasses, and E2PROM
SY8641	2-5	5	3DCamera Lens	QFN3x3-16	1 Boost output with analog switches for 3D glasses
SY8651	2.5-5.5	5	SSD Power System	QFN4x4-32	I2Cprogrammable 5-output buck Regulators
SY8652	2.5-5.5	5	SSD Power System	QFN5x5-32	I2Cprogrammable 5-output buck Regulators
SY8660	2.7-5.5	6	Portable Hard Drives	DFN3x3-14	1 Boost converter and 5-output buck Regulators
SY8673	8-18	5	TFT LCD Panel	QFN7x7-48	AVDD Boost, VGH/VGL charge pump, VCOM OPAMP, GPM, DVDD, Gammar reference LDO

### LDO Regulator

Part Number	Function	Vin (V)	Vout (V)	Iout(A)	Dropout Voltage(mV)	Package
SY6330	LDO Reg	3.6-5.5	Vout1=1.8V, Vout2=2.8V, Vout3=3.3V	0.15	150	SOT23-6
SY6331	LDO Reg	3.8-5.5	Vout1=1.8V, Vout2=2.8V, Vout3=2.8V	0.15	170	SOT23-6
SY6340	LDO Reg	2.3-30	Output Voltage Adjustable	0.15	300	SOT23-5/ DFN2x2-6
SY6340B	LDO Reg	3.6-30	3.3	0.05	100	SOT23-5



Battery Charger								
Part Number	Function	Vin (V)	Max. Charge Current(A)	Fsw (MHz)	HSFET Ron (mΩ)	LSFET Ron (mΩ)	Special Function	Package
SY6905	Single-cell Charger Bi-directional Reg.	4.1-6.5	5	1	20	30	4.2V <sub>CV</sub> , 2.5A MAX Boost Current, Prog. Charge&Discharge Current, Adaptive Input Current Limit, USB Port Identification	QFN4x4-20
SY6905B	Single-cell Charger Bi-directional Reg.	4.1-6.5	5	1	20	30	4.35V <sub>CV</sub> , 2.5A MAX Boost Current, Prog. Charge&Discharge Current, Adaptive Input Current Limit, USB Port Identification	QFN4x4-20
SY6925	Single-cell Charger Bi-directional Reg.	4.1-6.5	5	1	20	25	4.2V <sub>CV</sub> , 3A MAX Boost Current, Prog. Charge&Discharge Current, Adaptive Input Current Limit, USB Port Identification	QFN4x4-20
SY6902A	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Buck Mode Without Battery	SO8
SY6912A	Multi-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Multi-cell selectable	SO8E
SY6912B	Multi-cell Charger Step Down Reg.	4-23	4	0.8	160	150	Prog. Charge Current&Timer, 4.35V Cell Voltage, Multi-cell selectable	SO8E
SY6922	Multi-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Output Power Path Management, Multi-cell selectable	DFN3x3-12
SY6932	Multi-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Output Power Path Management, Multi-cell selectable	QFN4x4-16
SY6932B	Multi-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Output Power Path Management, Multi-cell selectable, 4.35V cell voltage	QFN4x4-16
SY6942	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Selectable Input Current Limit	DFN3x3-12
SY6952A	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage, Output Power Path Management	QFN4x4-16
SY6952B	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage	SO8E
SY6952C	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage, Output power Path Management	DFN3x3-12
SY6952D	Single-cell Charger Step Down Reg.	4-23	2	0.8	160	150	Prog. Charge Current&Timer, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage, 2 LEDs Indication	DFN3x3-12
SY6982C	2 cell Boost Li-Ion Battery Charger	3-6	2	1	80	40	Prog. Charge Current&Timer, Boost Mode Without Battery, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage	QFN3x3-16
SY6982C1	2 cell Boost Li-Ion Battery Charger	3-6	2	1	80	40	Prog. Charge Current&Timer, Boost Mode Without Battery, Adaptive Input Current Limit, 4.1/4.25V Cell Voltage	QFN3x3-16
SY6982D	2 cell Boost Li-Ion Battery Charger	3-6	2	1	80	40	Prog. Charge Current&Timer, Fault Mode Without Battery, Adaptive Input Current Limit	QFN3x3-16
SY6982E	2 cell Boost Li-Ion Battery Charger	3.5-6	2	1	80	40	Prog. Charge Current&Timer, Input Dynamic management, 4.2/4.35V Cell Voltage and 0.5% tolerance	QFN3x3-16
SY6982F	2 cell Boost Li-Ion Battery Charger	3-6	2	1	80	40	Prog. Charge Current&Timer, AC and BAT present indication, Adaptive Input Current Limit, 4.2/4.35V Cell Voltage	QFN3x3-16



## SILICON ENERGY----Powering the Future

### TVS

Product	Description	V <sub>RRM</sub> Max(V)	V <sub>BR</sub> Min(V)	C <sub>ESD</sub> @ 0V Typ(pF)	Package	Cross-Reference
CS0801L	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	5.5	12	SOD523	
CS0801M	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	5.5	12	DFN1006-2L	PESD5V0V1BL
CS0801MA	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	5.5	12	DFP1006	
CS0801M-33	Bi-directional, 1-Channel, Low Capacitance ESD Protection	3.3	5	12	DFN1006-2L	AOZ8231ADI-03
CS0801MA-33	Bi-directional, 1-Channel, Low Capacitance ESD Protection	3.3	5	12	DFP1006	
CS0801M-12	Bi-directional, 1-Channel, Low Capacitance ESD Protection	12	14	12	DFN1006-2L	AOZ8231ADI-
CS0801MA-12	Bi-directional, 1-Channel, Low Capacitance ESD Protection	12	14	12	DFP1006	
CS0801N	Bi-directional, 1-Channel, ESD Protection	5	6	35	DFN1006-2L	PESD5V0S1BL
CS0801NA	Bi-directional, 1-Channel, ESD Protection	5	6	35	DFP1006	
CS0801N-12	Bi-directional, 1-Channel, ESD Protection	12	14	35	DFN1006-2L	
CS0801N-24	Bi-directional, 1-Channel, ESD Protection	24	28	20	DFN1006-2L	
CS0801S	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.35	DFN1006-2L	RClamp0521P/ESD7951ST5G
CS0801SA	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.35	DFN1006-2L	
CS0801S-08	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	8	10	0.35	DFN1006-2L	RClamp0821P
CS0801S-12	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	12	14	0.35	DFN1006-2L	
CS0801S-15	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	15	18	0.35	DFN1006-2L	RClamp1521P
CS0801U	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	6	1	DFN1006-2L	
CS0802M	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	5.5	12	SOD923-2L	ESD9B5.0ST5G
CS0802S	1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.5	SOD923-2L	ESD9L5.0ST5G
CS0802T	1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.5	DFN1006-2L	ESD5V3U1U-02LRH
CS0802U	1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.9	DFN1006-2L	ESD9X5VL
CS0802V	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	6	2.2	DFN1006-2L	PESD5V0U1BL
CS0803M	2-Channel, Ultra Low Capacitance ESD Protection	5	6	0.8	SOT523-3L	RClamp0502B
CS0803S	2-Channel, Ultra Low Capacitance ESD Protection	5	6	0.8	SOT23-3L	
CS0803T	2-Channel, Ultra Low Capacitance ESD Protection	5	6	0.8	uDFN-3L	Rclamp0502P
CS0804M	4-Channel, Low Capacitance ESD Protection	5	6	9	SOT553-5L	PESD5V0L4UW
CS0805M	2-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	SOT553-5L	NUP2114UPXV5/CM1263-
CS0805N	5-Channel, Low Capacitance ESD Protection	5	6	9	SOT563-6L	CM1219
CS0806M	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	SOT563-6L	NUP4114UPXV6
CS0806P	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	MSOP-10L	RClamp0514M
CS0806S	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	DFN-10L	RClamp0524P/AZ1045-04F
CS0806SA	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	DFN-10L	
CS0806T	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	DFN-6L	RClamp0504P
CS0806U	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	SOT23-6L	AZC199-04S
CS0807S1	Bi-directional, 6-Channel, Ultra Low Capacitance ESD Protection	5	6	0.25	MSOP-8L	AZ1065-06Q
CS0807U	Bi-directional, 6-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	DFN4120-10L	AZ1065-06F
CS0809M	4-Channel, Low Capacitance ESD Protection	5	6	3.5	MSOP-10L	RClamp0504M
CS0809N	4-Channel, Low Capacitance ESD Protection	5	6	3.5	DFN2020-6L	RClamp0504N
CS0809V	4-Channel, Low Capacitance ESD Protection	5	6	3.5	SOT23-6L	SRV05-4
CS0810S	8-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	MSOP-10L	CM1213-08MR
CS081102	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.35	CSP0201-2L	ESD11N5.0ST5G
CS0811S02	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	5	6	0.35	DFN0603	ESD8472MUT5G/RClamp0521Z
CS0811S02-33	Bi-directional, 1-Channel, Ultra Low Capacitance ESD Protection	3.3	5	0.35	DFN0603	ESD7481MUT5G
CS0812S	4-Channel, Low Capacitance Large Current ESD Protection	12	14	0.6	DFN2018-6L	RClamp1255P
CS081202	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	6	10	CSP0201-2L	
CS081302	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	5.5	12	DFN0603	PESD5V0L1BSF
CS081302-33	Bi-directional, 1-Channel, Low Capacitance ESD Protection	3.3	5	12	DFN0603	
CS081302-12	Bi-directional, 1-Channel, Low Capacitance ESD Protection	12	14	12	DFN0603	
CS081402	Bi-directional, 1-Channel, Low Capacitance ESD Protection	5	6	35	DFN0603	PESD5V0S1BSF
CS0816	4-Channel, Ultra Low Capacitance ESD Protection	5	6	1	SOT23-6L	AZC099-04S
CS0826	4-Channel, Ultra Low Capacitance ESD Protection	5	6	0.6	SOT23-6L	AZ1045-04SU
CS0835	4-Channel, Low Capacitance Large Current ESD Protection	5	6	5	SOT23-6L	AZ1315
CS083302	Bi-directional, 1-Channel, Low Capacitance ESD Protection	3.3	5	12	SOD-923	ESD9B3.3ST5G





# SILICON ENERGY----Powering the Future

## Surge

Product	Description	V <sub>RWM</sub> Max (V)	V <sub>t</sub> Min (V)	C <sub>ESD</sub> @ 0V Typ. (pF)	IEC 61000-4-5 (8/20s) IPP (A)	Package	Cross-Reference
CS2201-25	4-Channel, Surge Protection for Gigabit Ethernet	2.5	3	3.8	25	DFN-10L	RClamp2504N
CS2201-33	4-Channel, Surge Protection for Gigabit Ethernet	3.3	3.5	3.8	25	DFN-10L	RClamp3304N
CS2202-4	2-Line-Pair differential Surge Protection for Gigabit Ethernet	2.8	3	2	60	SOP-8L	SLVU2.8-4
CS2202-8	4-Line-Pair differential Surge Protection for Gigabit Ethernet	2.8	3	2.5	60	SOP-8L	SLVU2.8-8
CS2203-25	2-Line-Pair differential Surge Protection for Gigabit Ethernet	2.5	3	4.5	10	DFN-8L	uClamp2512T
CS2203-33	2-Line-Pair differential Surge Protection for Gigabit Ethernet	3.3	3.5	4.5	10	DFN-8L	uClamp3312T
CS2204-25	2-Line-Pair differential Surge Protection for Gigabit Ethernet	2.5	3	3.8	40	DFN-10L	RClamp2574N
CS2204-33	2-Line-Pair differential Surge Protection for Gigabit Ethernet	3.3	3.5	3.8	40	DFN-10L	RClamp3374N
CS2205	1-Channel, Low Capacitance ESD/Surge Protection	3.3	3.5	6	10	SOD323	uClamp3301D
CS2206-25	1-Channel, Low Capacitance ESD/Surge Protection	2.5	3	4.5	10	uDFN-2L	uClamp2511T
CS2207	1-Channel, Low Capacitance ESD/Surge Protection	3.3	3.5	6	10	SOD-523	uClamp3301H
CS2208	1-Line-Pair differential Surge Protection for Gigabit Ethernet	3.3	3.5	0.7	10	SOD-323	PD10943
CS2209	4-Channel Surge Protection for Gigabit Ethernet	3.3	3.5	4	25	SOP-8L	SRDA3.3-4
CS2210	2-Line-Pair differential Surge Protection for 10Gigabit Ethernet	2.5	3	0.5	10	DFN-8L	-

## EMI

Product	Device (Cap @ 2.5V)	f <sub>c</sub> (MHz)	f <sub>s</sub> (MHz)	Attenuation (dB)						Package	Cross-Reference
				5MHz	700MHz	800MHz	1GHz	2GHz	6GHz		
CS1802-04/06/08	C-L-C (12pF-17nH-12pF)	200	400	-1.24	-20	-23	-29	-40	-34	uDFN-8/12/16L	CM1692-04/06/08DE
CS1804-06/08	C-L-C (15pF-17nH-15pF)	150	350	-0.84	-25	-28	-35	-44	-37	TDFN-12/16L	CM1460-04/06/08DE
CS1805-06/08	C-L-C (10pF-26nH-12pF)	250	300	-1.3	-36	-48	-38	-34	-33	uDFN-12/16L	CM1693-04/06/08DE
CS1806-06/08	C-L-C (10pF-26nH-13pF)	250	300	-1.3	-36	-48	-38	-34	-33	TDFN-12/16L	CM1693-04/06/09DE
CS1807-04/08	C-L-C (9.5pF-20nH-9.5pF)	300	380	-0.83	-25	-32	-44	-45	-33	uDFN-8/16L	CM1453-04/06/08CP
CS1810-04/06/08	C-R-C (10pF-100ohm-10pF)	175	275	-6	-22	-25	-30	-36	-30	uDFN-8/12/16L	NUF8401MN
CS1811-04/06/08	C-R-C (7pF-100ohm-7pF)	250	400	-6	-18	-20	-23	-35	-35	uDFN-8/12/16L	EMI5204/6/8
CS1812-04/06/08	C-R-C (15pF-100ohm-15pF)	110	NA	-6	-31	-34	-39	-38	-30	uDFN-8/12/16L	CM1409-06/08DE
CS1814-04/06/08	C-R-C (10pF-100ohm-10pF)	175	275	-6	-22	-25	-30	-36	-30	TDFN-8/12/16L	NUF8401MN
CS1815-04/06/08	C-R-C (7pF-100ohm-7pF)	250	400	-6	-18	-20	-25	-35	-35	TDFN-8/12/16L	EMI5204/6/8
CS1816-04/06/08	C-R-C (15pF-100ohm-15pF)	110	NA	-6	-31	-34	-39	-38	-30	TDFN-8/12/16L	CM1409-06/08DE
CS1820	C-R-L-C (10.5pF-38ohm-20nH-10.5pF)	310	NA	-2.9	-21	-29	-35	-42	-14	uDFN-16L	CM1624
CS1821	C-R-C (6pF-45ohm-6pF)	300	NA	-3.1	-12	-13	-15	-25	NA	TDFN-16L	EClamp2410P
CS1831M/1832/1833	Common mode choke	2000	NA	-0.8	-25	-28	-37	-20	-8	uDFN-8/WDFN10/16L	EMI4182/3
CS1841M/1842/1843	Common mode choke	4000	NA	-0.3	-15	-17	-21	-25	-10	uDFN-8/WDFN10/16L	EMI4192

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