

## Catalog of Products 产品目录



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# Catalog of Products 产品目录

## POWER MANAGEMENT 电源管理类

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DC/DC STEP-UP CONVERTER (升压型DC/DC转换器)

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## Power Management 电源管理类

DC/DC Step-down Converter (降压型DC/DC转换器)

Part No.	Power switching	MODE	VIN	VOUT	IQ	FOSC	Eff.	Max.Duty Cycle	Accu.	IOUT	Package	Application	Reference
<b>BL8021</b>	Built-in MOSFET Synchronous	PWM/PFM	Max 7V	ADJ	35μA	1.5MHz	96%	100%	±2.5%	1.2A	SOT23-5	TV,MID,STB,PON	SY8008A MP2105 RT8008 RT8024 MT2104
<b>BL8025</b>	Built-in MOSFET Synchronous	PWM/PFM	2.6~6V	ADJ	40μA	1.5MHz	96%	100%	±2.5%	1A	SOT23-5	TV,MID,STB,PON	RT8009 XC9216
<b>BL8026</b>	Built-in MOSFET Synchronous	PWM/PFM	2.6~7V	ADJ	50μA	1.5MHz	97%	100%	±2%	1A	SOT23-5	TV,MID,STB,PON	SY8008A MP2105 RT8008 RT8024 MT2104
<b>BL8027</b>	Built-in MOSFET Synchronous	PWM/PFM	2.5~6V	ADJ	40μA	1.5MHz	96%	100%	±2%	1.5A	SOT23-5	TV,MID,STB,PON	SY8008A MP2105 RT8008 RT8024 MT2104
<b>BL9309</b>	Built-in MOSFET Synchronous	PWM/PFM	2.5~5.5V	ADJ	50μA	1.3MHz	97%	-	±2.5%	2A	SOT23-5 SOT23-6	TV,MID,STB,PON	SY8009B ZTP7108
<b>BL8076</b>	Built-in MOSFET Synchronous	PWM/PFM	2.6~6V	ADJ	30μA	3MHz	96%	100%	±2%	2A	SOT23-5 DFN2X2-8L	TV,MID,STB, PHONE	TPS62065
<b>BL9315</b>	Built-in MOSFET Synchronous	PWM/PFM	2.6~5.5V	ADJ	50μA	1.4MHz	97%	-	±2.5%	3A	ESOP8	TV,STB	PAM2320
<b>BL8031</b>	Built-in MOSFET Synchronous	PWM/PFM	3.5~16V	ADJ	0.4mA	600KHz	96%	92%	±2%	2A	SOT23-6	TV,STB,PON	SY8120
<b>BL8032</b>	Built-in MOSFET Synchronous	PWM/PFM	4.2~18V	ADJ	0.8mA	500KHz	96%	92%	±3%	2A	SOT23-6	TV,STB,PON	MP1470
<b>BL9370B</b>	Built-in MOSFET Synchronous	PWM/PFM	4.7~20V	ADJ	50μA	500KHz	95%	93%	±3%	2A	TSOT23-6	TV,STB,PON	MP1470
<b>BL9320</b>	Built-in MOSFET Synchronous	PWM/PFM	4.5~20V	ADJ	50μA	410KHz	95%	94%	±3%	2A	TSOT23-6	TV,STB,PON	SY8120
<b>BL9371</b>	Built-in MOSFET Synchronous	PWM/PFM	4.5~18V	ADJ	80μA	420KHz	95%	96%	±2%	3A	TSOT23-6	TV,STB,PON	MP1471

Part No.	Power switching	MODE	VIN	VOUT	IQ	FOSC	Eff.	Max.Duty Cycle	Accu.	IOUT	Package	Application	Reference
BL9313	Built-in MOSFET Synchronous	PWM/PFM	4.5~18V	ADJ	80μA	420KHz	95%	95%	±2%	3A	TSOT23-6	TV,STB,PON	SY8113
BL8095	Built-in MOSFET	PWM/PFM	4~24V	ADJ	0.6mA	1.4MHz	90%	88%	±2%	1.2A	SOT23-6	车载,安防监控	MP2359
BL9641	Built-in MOSFET	PWM/PFM	4~38V	ADJ	0.6mA	660KHz	92%	90%	±2.5%	400mA	SOT23-6	电表,车载载波模块	MP2451
BL9641B	Built-in MOSFET	PWM/PFM	4~38V	ADJ	0.6mA	660KHz	92%	90%	±2.5%	400mA	SOT23-6	电表,车载载波模块	MP2451
BL9341	Built-in MOSFET Synchronous	PWM/PFM	4~40V	ADJ	50μA	2MHz	93%	—	±3%	600mA	SOT23-6	电表,载波模块	MP2451
BL9342	Built-in MOSFET	PWM/PFM	4.2~40V	ADJ	200μA	1.8MHz	90%	—	±2.5%	700mA	SOT23-6	电表,车载载波模块	MP2451
BL9382C	Built-in MOSFET Synchronous	PWM/PFM	4.5~24V	ADJ	50μA	500KHz	94%	95%	±3%	2A	SOP8	STB,车载	MP1482
BL9384B	Built-in MOSFET Synchronous	PWM	5~20V	0.923~15V,ADJ	60μA	360KHz	94%	—	±2%	3A	ESOP8	STB,车载	MP1484

#### DC/DC Step-up Converter (升压型DC/DC转换器)

Part No.	MODE	VIN	VOUT	IQ	FOSC	Eff.	Accu.	Power switching	IOUT	Package	Application	Reference
BL8531	PFM	0.8~5.5V	2.5~6V 100mV Step	4μA	450KHz	85%	±2%	Internal MOSFET	300mA	SOT89-3 SOT23-3 SOT23-5	玩具,鼠标,应急充, MP4	XC6383 S-8351 RT9261 AIC1642
BL8531C	PFM	0.8~5.5V	2.5~6V 100mV Step	6μA	400KHz	90%	±2%	External MOSFET	-	SOT89-5 SOT23-3 SOT23-5	玩具,鼠标,应急充, MP4	XC6368,RH5RK
BL8542B	Sync Boost PFM/PWM	0.85~5V	3.3, 5V, ADJ	25μA	1MHz	95%	±2%	Internal Sync Rectifier	300mA	SOT23-5	玩具,3D眼镜,蓝牙耳机	
BL8536	Sync Boost PWM	0.9~5V	1.8~3.6V	8μA	1MHz	94%	±2%	Internal Sync Rectifier	300mA	SOT89-3 SOT23-3	鼠标,玩具	

#### CMOS Type LDO Linear Regulator(CMOS型低压差线性稳压器)

Part No.	Features	VIN	VOUT	Accu.	PSRR	IQ	IOUT(Max)	Package	Application	Reference
BL91XX	Low Power Consumption, Low Dropout Voltage	20V	3.0,3.3,3.6, 4.0,5.0V	±3%		3.5μA	100mA	SOT89-3 TO92	电表,车载,玩具,烟炬,LED照明	HT71XX, HT75XX



Part No.	Features	VIN	VOUT	Accu.	PSRR	IQ	IOUT(Max)	Package	Application	Reference
<b>BL8065</b>	HV Three-Terminal Positive Regulator	36V	3.3,5,12V, ADJ	±2%		10μA	150mA	SOT89-3 TO92	电表,车载,玩具	
<b>BL8064</b>	Low Power Consumption, Low Dropout Voltage	1.5~8V	1.1~5.5V	±2%		1μA	200mA	SOT23-3 SOT89-3 TO92	电池供电设备	XC6206
<b>BL8061</b>	Low Power Consumption, Low Dropout Voltage	Max 16V	1.1~5.0V	±2%		2μA	250mA	SOT23-3 SOT23-5 SOT89-3	电池供电设备	
<b>BL8062</b>	Low Power Consumption, Low Dropout Voltage	Max 16V	1.2~5.0V	±2%		3μA	250mA	SOT23-3 SOT89-3	电池供电设备	
<b>BL8503</b>	Low Dropout Voltage, Low Iq	Max 8V	1.2~6V	±2%/ ±1%		3μA	250mA	SOT89-3 SOT23-3 TO92	电池供电设备	XC6206
<b>BL8063</b>	Low Noise, High PSRR	Max 6V	2~6V	±2%	74dB@100Hz	35μA	300mA	DFN1x1-4L SC70-5 SOT23-5	手机,无绳电话,MID 等电池供电设备	XC6219,RT9193, RT9198,R1114X, LP3985
<b>BL8563</b>	Low Noise, High PSRR, Output Discharge	Max 6V	1.5~4.5V	±2%	73dB@100Hz	35μA	300mA	DFN1x1-4L SOT23-5 SC70-5 SOT23-3	手机,无绳电话, MID 等电池供电设备	XC6219,RT9193, RT9198,R1114X, LP3985
<b>BL8067</b>	Low Noise, High PSRR, Output Discharge	Max 6V	1.0~4.5V	±2%	70dB@100Hz	35μA	300mA	SOT23-5 SC70-5	手机,无绳电话, MID 等电池供电设备	
<b>BL9193</b>	RF LDO, Ultra Low Noise, High PSSR, Output Discharge	2~6V	1.2~5V, ADJ	±2%/ ±1%	80dB@217Hz 78dB@1KHz	90μA	300mA	SOT23-5 SC70-5	电话,无绳电话, MID 等电池供电设备	RT9193
<b>BL9195</b>	Ultra Fast, Ultra Low Noise, High PSSR, Output Discharge	2~6V	1.2~5V	±2%/ ±1%	78dB@217Hz	90μA	300mA	SOT23-3 SOT89-3 SOT223-3	STB,光驱,TV	XC6206,RS7100, RT9166
<b>BL9198</b>	RF LDO, Ultra Low Noise, High PSSR, Output Discharge	2~6V	1.2~5V	±2%/ ±1%	78dB@217Hz	90μA	300mA	SOT23-5 SC70-5	电话,无绳电话, MID 等电池供电设备	XC6219,XC6212, XC6209,R1114X
<b>BL9180</b>	Dual Channels LDO, Output Discharge	2~6V	1.2~5V	±2%/ ±1%	70dB@1KHz	90μA x 2	300mA x 2	SOT23-6 ESOP8	电话,摄像头模组	XC6401
<b>BL8566</b>	Dual Channels LDO, Output Discharge	Max 6V	1.5~4.5V	±2%/ ±1%	73dB@100Hz	20μA x 2	300mA x 2	SOT23-6	电话,摄像头模组	RT9011,XC6401
<b>BL9152</b>	HV, Low Power Consumption, Low Dropout Voltage	4.75~40V	1.8~10V	±2%		6μA	500mA	SOT89-3	电表、安防	
<b>BL9153</b>	HV, Low Power Consumption, Low Dropout Voltage	4.75~40V	1.8~10V	±2%		6μA	500mA	SOT89-3	电表、安防	
<b>BL8558</b>	Low Noise, High PSRR, Output Discharge	Max 8V	1.2~4.5V	±2%/ ±1%	66dB@100Hz	75μA	500mA	SOT89-3 SOT23-5	电池供电设备	RT9013,RT9017
<b>BL8565</b>	Low Noise, Low Dropout, High PSRR, Output Discharge	Max 6V	1.5~4.5V	±2%	73dB@100Hz	20μA	500mA	SOT89-3	STB,光驱,TV	RT9162,FS8853, PT5102,SG2003
<b>BL8568</b>	Low Noise, High PSRR Fast Response, Output Discharge	Max 6V	1.2~4.5V	±2%	72dB@1KHz	30μA	500mA	SC70-5 SOT23-5	电话,无绳电话, MID 等电池供电设备	

Part No.	Features	VIN	VOUT	Accu.	PSRR	IQ	IOUT(Max)	Package	Application	Reference
BL8569	Dual Channels LDO	Max 6V	1.2~4.5V	±2%	72dB@1KHz	30μA x 2	500mA x 2	SOT23-6	电话,摄像头模组	
BL9110	1A Very Low Dropout Low Noise High PSRR	2.5~6V	1.0~5.0V	±2%/±1%	70dB@100Hz	70μA	1A	SOT223-3 TO252-3	TV,STB,PC主板	TPS73701, G1117, AP2114
BL8073	Low Noise, Low Dropout, High PSRR	Max 6V	1.2~5.0V	±2%		100μA	1A	SOT89-3 SOT23-5	TV,STB,PC主板	
BL8071	Low Noise, Low Dropout, High PSRR	Max 6V	1.2~5.0V	±2%		100μA	1.5A	SOT223	TV,STB,PC主板	
BL8072	2A Low Dropout, Low Iq	Max 18V	1.2~5.0V	±2%		3μA	2A	SOT223 TO252	TV,STB,PC主板	

\*Ordered by IOU

### Charge Pump DC/DC Step-up Converter (电荷泵型升压DC/DC转换器)

Application: LED Backlight

Part No.	MODE	VIN	IQ	Driving Current	Freq	Accu.	Package	Application
BL8052	Built in 7 MOSFET 3X Charge Pump	3~5.5V	95μA	12V/50mA	620KHz	±5%	SOP8	OLED显示器,Flash擦写供电栅极偏压,玩具

### Bipolar Type LDO Linear Regulator (双极型低压差线性稳压器)

Part No.	Features	VIN	VOUT	Accu.	IQ	IOUT(Max)	Package	Application	Reference
BL1117	Bipolar, Low Dropout Voltage	Max 15V	1.2,1.8,2.5,3.3,5V, ADJ	±2%	2mA	1A	SOT223 TO252	TV,STB,PC主板	LM1117
BL1117C	Bipolar, Low Dropout Voltage	Max 15V	1.2V	±2%	2mA	1A	SOT223	TV,STB,PC主板	LM1117
BL1118	Dual Channels Bipolar, Low Dropout Voltage	Max 12V	1.2,1.8,2.5,3.3,5V, ADJ	±2%	2mA x 2	1A x 2	ESOP8	TV,STB,PC主板	
BL1085	Bipolar, Low Dropout Voltage	Max 12V	1.8,2.5,3.3,5V, ADJ	±2%	4mA	3A	TO252 TO263	TV,STB,PC主板	LM1085
BL1084	Bipolar, Low Dropout Voltage	Max 12V	1.8,2.5,3.3,5V, ADJ	±2%	5mA	5A	TO252 TO263	TV,STB,PC主板	LM1084

### Li-ion Battery Charger (锂电池充电芯片)

Part No.	Features	VIN	Series Cells	Max Charger	Charger Type	Output Accu.	Package	Application	Reference
BL4054B	Temperature Regulation, Trickle Charge, C/10 Charge Termination, USB Compliant	4.25~6.5V Max 10V	1	800mA	Linear	4.2V±1% 4.3V±1% 4.4V±1%	SOT23-5 TSOT23-5	单节锂电供电设备	LTC4054
BL4056B	1A Lithium Ion Battery Linear Charger	4~6.5V	1	1A	Linear	4.2V±1% 4.35V±1%	ESOP8	单节锂电供电设备	
BL8573	500mA/1.5A Lithium Ion Battery Linear Charger	4.25~6V	1	500mA/1.5A	Linear	4.2V±1% 4.35V±1%	SOT23-6 ESOP8	单节锂电供电设备	
BL8578	2A Lithium Ion Battery Switching Charger	4.2~6V	1	2A	Switching	4.2V±1% 4.35V±1%	DFN3x3-10	单节锂电供电设备	



### Load Switch (精密限流负载开关)

Part No.	Features	VIN	IQ	Current Limit Threshold	Power switch On Resistance	Package	Application	Reference
BL2553	Reverse Voltage Protection, OTP, UVLO, Faultflag Output	2.5~5.5V	120μA	75mA~1.4A	95mΩ	DFN2X2-6L	STB,MID	
BL2554	Reverse Voltage Protection, OTP, UVLO	2.5~5.5V	150μA	Max. 1.5A	250mΩ	SOT23-5	STB,MID	SY6280
BL2557	启动延时电路	2~12V	350μA	1mA	300Ω@Vin=6V	SOT23-6	玩具	

### PMU (电源管理单元,可定制)

Part No.	Configuration	MODE	VIN	IQ	FOSC	Eff.	FB Voltage	IOUT	Package	Reference
BL8082 BL8082B	1x 1A Sync Buck 2x 1A LDO	PWM/PFM	Buck 7V;LDO 12V	Buck 50μA,LDO 2mA	1.5MHz	97%	0.6V	DC/DC: 1A LDO: 1A	DFN3x3-12L	
BL8083	1 x 18V/2A Buck 1 x 6V/1.5A LDO	PWM/PFM	Buck 18V;LDO 6V	Buck 0.8mA,LDO 100μA	500KHz	96%	0.8V	DC/DC: 2A LDO: 1.5A	ESOP8 DFN2x3-8	
BL8085	1 x 18V/2A Buck 2 x 6V/1.5A LDO	PWM/PFM	Buck 18V;LDO 6V	Buck 0.8mA,LDO 100μA	500KHz	96%	0.8V	DC/DC: 2A LDO: 1.5A	DFN3x3-12	
BL8086	1 x 6V/1.5A Buck 2 x 6V/0.5A LDO	PWM/PFM	Buck 6V;LDO 6V	Buck 40μA,LDO 35μA	1.5MHz	96%	0.6V	DC/DC: 1.5A LDO: 0.5A	ESOP8	
BL8087	1 x 7V/1A Buck 1 x 6V/0.5A LDO	PWM/PFM	Buck 7V;LDO 6V	Buck 50μA,LDO 35μA	1.5MHz	97%	0.6V	DC/DC: 1A LDO: 0.5A	DFN2x2-8	
BL8089	2 x 6V/1.5A Buck 2 x 6V/0.5A LDO	PWM/PFM	Buck 6V;LDO 6V	Buck 40μA,LDO 35μA	1.5MHz	96%	0.6V	DC/DC: 1.5A LDO: 0.5A	QFN3x3-16	

### Three-terminal Positive Regulator (三端稳压器)

Part No.	Features	VIN	VOUT	Accu.	IQ	IOUT(Max.)	Package	Application	Reference
BL7805	Three-terminal 1.2A Positive Voltage Regulator	Max 35V	5V	±4%	Max 6mA	1.2A	TO220	家电,电表	
BL78L05D	Three-terminal Positive Voltage Regulator	Max 35V	5V	±2%	2mA	100mA	SOT89-3 TO92	家电,电表	
BL78L05	Three-terminal Positive Voltage Regulator	Max 30V	5V	±4%	Max 5.5mA	100mA	SOT89-3 TO92	家电,电表	
BL78M05	Three-terminal Positive Voltage Regulator	Max 35V	5V	±4%	4mA	500mA	TO252	家电,电表	
BL78D05	Three-terminal Positive Voltage Regulator	Max 35V	5V	±2%	5mA	1A	TO252	家电,电表	
BL317	High Current Adjustable Voltage Regulator	Max 37V	ADJ	±4%	50μA	1A	TO220	STB	LM317
BL317B	High Current Adjustable Voltage Regulator	Max 40V	ADJ	±4%	46μA	1.5A	TO220 TO252 TO263	STB	LM317
BL2940	1A-Low-Dropout Regulator. Max Surge Supply Voltage Is 60V(t≤100ms)	Max 26V	5,12V	±3%	10mA	1A	SOT223 TO252 TO220 TO263	电表	
BL2950 BL2951	100mA-Low-Dropout Regulator	Max 30V	2.5,3,3.3, 3.6,5V	±2%	120μA	100mA	TO92 TO252 SOP8 DIP8	电表	

## Shunt Regulator (电压基准)

Part No.	VKA	IKA	VREF	Voltage Tolerance	Minimum Cathode Current for Regulation IKA(MIN)	Package	Application	Reference
BL431	Max 37V	-10~150mA	2.5V	0.5%	400μA	TO92	开关电源	TLV431
BL431	Max 37V	-10~150mA	2.495V	1.0%	400μA	SOT23-3	开关电源	TLV431

## Voltage Detector/Reset IC(电压检测器/复位IC)

Applications: CPU and Logic circuit Reset, Power failure detector, Battery checker

Part No.	VIN	VDET	IQ	Accu.	Output Type	Package	Delay Time	Application	Reference
BL8506	0.7~10V	0.9~6V (Step 0.1V)	0.5μA	±2%	CMOS Or NCh, Hysteresis 4%	SOT23-3 SOT89-3 SOT23-5 SOT23	N/A	便携式电池电压检测, Power Good, Failure检测	R3111, XC61C, HT70XX
BL8509C	6V	1.5~4.5V (Step 0.1V)	10μA	±4%	CMOS	SOT23	200ms	便携式电池电压检测, Power Good, 上电掉电复位Failure检测	R3110 MAX809
BL8510C	6V	1.5~4.5V (Step 0.1V)	10μA	±4%	CMOS	SOT23	200ms	便携式电池电压检测, Power Good, 上电掉电复位Failure检测	MAX810

## AC/DC转换器

SSR系列

Part No.	Pout (Max.)	Drive Device	MODE	Standby Power	Power on Soft-Start	OVP	Package	Application	Reference
BL8891B	15W	MOSFET	SSR	<0.15W	Y	Y	DIP7	电源适配器、机顶盒电源、小家电电源	OB2358, SP7625
BL8851	60W	External MOSFET	SSR	<0.15W	Y	Y	SOT23-6	电源适配器、机顶盒电源、小家电电源	OB2273

## Metering 表计

Energy Measurement ASIC (电能计量专用电路)

Part No.	Meter	Measurement	Power Consumption	Anti-Tamper	Output	Clock	VDD	Package	Reference
BL0921	Single	Active	20mW	2 Channels	Pulse	Internal	5V	SOP16	
BL0930E	Single	Active 3000:1	15mW	Reverse Indication	Pulse	Internal	5V	SOP16	ADE71056
BL0937	Single	Multifunction (Active, I, V, P.)	6mW		Pulse	Internal	3.3V	SOP8	
BL6501A	Single	Active	15mW	2 Channels	Pulse	3.58MHz	5V	SSOP24	ADE7751
BL6503E	Single	Active	15mW	Reverse Indication	Pulse	3.58MHz	5V	SSOP24	ADE7755
BL6523B	Single	Multifunction (Active 5000:1, I, V, P, S, PF, Freq.)	25mW	3 Channels	Pulse, SPI	3.58MHz	5V	SSOP24	BL6523A
BL6523GX	Single	Multifunction (Active 6000:1, I, V, P, S, PF, Freq.)	20mW	3 Channels	Pulse, UART	3.58MHz	5V	SOP16	



Part No.	Meter	Measurement	Power Consumption	Anti-Tamper	Output	Clock	VDD	Package	Reference
BL6526B	Single	Multifunction (Active 5000:1, I, V, P, S, PF, Freq.)	25mW	Reverse Indication	Pulse, SPI	3.58MHz	5V	SOP16	
BL6528A	Single	Multifunction (Active 3000:1, Reactive 3000:1, I, V, P, S, PF, Freq.)	25mW	2 Channels	Pulse, SPI/UART	3.58MHz	5V	SSOP24	
BL6528B	Single	Multifunction (Active 3000:1, Reactive 3000:1, I, V, P, S, PF, Freq.)	25mW	2 Channels	Pulse, SPI	3.58MHz	5V	SSOP20	
BL6513C	Three	Active 3000:1	25mW	Reverse Indication By Any	Pulse	2.5~4MHz	5V	SOP24	
BL6522B	Three	Multifunction (Active 3000:1, Reactive 3000:1, I, V, P, Q, S, PF, Freq.)	30mW	Reverse Indication By Any	2Pulse, SPI	3.58MHz	3.3V	LQFP44	

\*Order by Meter type

#### Energy Measurement SoC (电能表专用多功能MCU芯片)

Part No.	Measurement Features	MCU	LCD	Flash	SRAM	RTC	Clock	I2C	WDT	I/O	Channels of ADC	VDD	Package
BL6531	No	R8051XC2	Max8 x32	128KB	4K	8PPM	32768Hz	2	Yes	59	4 x 12 Bit ADC	5V	LQFP80
BL6536	No	R8051XC2	Max8 x32	128KB	4K	8PPM	Internal		Yes	59	4 x 12 Bit ADC	5V	LQFP80

#### LCD Display Driver (液晶显示驱动)

Part No.	Features	IDD (Power Saving)	IDD (Normal Mode)	I/O	VDD	Package	Reference
BL55024	4x15 Segments	7μA@3.3V	16μA@5V	Two-wire Serial	2.5~5.5V	SOP24	
BL55028	4 x19 Segments	7μA@3.3V	16μA@5V	Two-wire Serial	2.5~5.5V	SOP28	
BL55066	4 x24 Segments	8μA@3.3V	22μA@5V	Two-wire Serial	2.5~5.5V	LQFP44	PCF8566
BL55070	4 x35 Segments	9μA@3.3V	30μA@5V	Two-wire Serial	2.5~5.5V	LQFP44 SSOP48	
BL55072	4 x36 Segments	7.5μA@3.3V	10μA@5V	Two-wire Serial	2.5~5.5V	TSSOP48	BU9792
BL55087	4 x40 Segments	9μA@3.3V	32μA@5V	Two-wire Serial	2.5~5.5V	LCD COG	
BL55076/ BL55077	4 x40 Segments	9μA@3.3V	32μA@5V	Two-wire Serial	2.5~5.5V	LQFP64	PCF8576
BL55080	8 x35 Segments	5μA@3.3V	10μA@5V	Two-wire Serial	2.5~5.5V	TSSOP48 LQFP48 LQFP52	BU97950

\*Order by LCD Segments

#### Power Line Communication Modem Chip (电力线载波通信调制解调电路)

Application: AMR, Lighting Control, Fire Monitoring, Building Automation

Part No.	Frequency (Adaptive)	Standard	VDD	Data Rate(Adaptive)	Sensitivity	Package
BL6810	131.58k/263.16k/312.5k/416.67kHz	EIA709.2	5V	5.48kbps/783bps/87bps	<1μV	LQFP32

## Relay Driver (磁保持继电器驱动)

Application: Pre-paid meter system or Power switch.

Part No.	Features	Standby	Input Mode	Output	VDD	Package	Application
BL8023C	Bidirectional Relay Driver	10nA	(1)Pulse (100ms) (2)Voltage	500mA (Max)	40V	DIP8 SOP8	电表,功率补偿器,磁保持继电器
BL8023D	Bidirectional Relay Driver	10nA	(1)Pulse (100ms) (2)Voltage	500mA (Max)	40V	SOT23-6	电表,功率补偿器,磁保持继电器
BL8023E	Bidirectional Relay Driver	10nA	(1)Pulse (100ms) (2)Voltage	400mA (Max)	5~25V	DIP8 SOP8	电表,功率补偿器,磁保持继电器
BL8023F	Bidirectional Relay Driver	10nA	(1)Pulse (100ms) (2)Voltage	500mA (Max)	5~36V	SOT23-6	电表,功率补偿器,磁保持继电器

## Interface Circuit (RS-485接口电路, MBUS接口电路)

Part No.	Features	Standard	VDD	ICC	Package	Max. points	Range of Temp.	Reference
BL3085A	10KV ESD Protected, High-speed Transceivers	RS-485	5V	0.3mA	SOP8	256	-40~+85℃	MAX3085
BL3085B	15KV ESD Protected, High-speed Transceivers	RS-485	5V	0.3mA	SOP8	256	-40~+85℃	MAX3085
BL3085NE	10KV ESD Protected, High-speed Transceivers	RS-485	5V	0.3mA	SOP8	256	-40~+85℃	Self-adaption
BL15721A	Meter-Bus Transceiver (EN1434-3)	MBUS	10.8~42V	1.34mA	SOP16	NA	-25~+85℃	TSS721A

## LED Driver & Fluorescent Lighting 驱动电路

Non-isolated Constant Current Linear LED driver(非隔离线性恒流LED驱动芯片)

Part No.	Features	Mode	VIN	IOUT	Eff.	IQ	Package	Reference
BL8312	No Need Inductor With Shot Circuit Protection	Linear	110V(AC) 220V(AC)	Max 80mA	90%	300uA	SOT23-5	

Non-isolated Buck Offline LED Driver (高效非隔离降压型恒流LED驱动芯片)

Part No.	Features	Mode	VIN	Current Accu.	Rdson(ohm)	Package	Reference
BL8331	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	16	SOP8	BP2831A
BL8333S	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	8	SOP8	BP2832A
BL8333R	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	5	SOP8	
BL8333D	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	5	DIP8	BP2833D
BL8336F	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	4	DIP8	BP2836
BL8332S	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	8	SOP8	防潮,高温降电流
BL8332R	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	5	SOP8	防潮,高温降电流
BL8332D	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	5	DIP8	防潮,高温降电流
BL8332C	Non-isolated Buck Offline LED Driver	PWM	85~264V(AC)	±3%	3	DIP8	防潮,高温降电流



### PFC Controller Non-isolated Buck Offline LED Driver (高PFC高效非隔离降压型恒流LED驱动芯片)

Part No.	Features	Mode	VIN	Current Accu.	Rdson(ohm)	Package	Reference
BL8335	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	Ext-MOS	SOT23-6	BP2329A
BL8335A	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	8	SOP8	
BL8335B	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	5	SOP8	BP2325A
BL8335C	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	4	SOP8	BP2327A
BL8335D	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	4	DIP8	WS3413D
BL8335E	PFC Controller Non-isolated Buck LED Driver	PWM	85~264V(AC)	±3%	1.85	SOP8	SD6904S

### Non-isolated Buck DIMMING LED Driver (高效非隔离降压型调光恒流LED驱动芯片)

Part No.	Features	Mode	VIN	Current Accu.	DIMMING	Package	Reference
BL8336D	Non-isolated Buck DIMMING LED Driver	PWM	85~264V(AC)	±3%	PWM/ANALOG/DUTY	DIP8	

### PFC Controller With PSR For LED Driver (高PFC高效隔离恒流驱动芯片)

Part No.	Features	Mode	VIN	Current Accu.	THD	Package	Reference
BL8326	PSR Single-Stage APFC Offline LED Controller	PWM	85~264V(AC)	±3%		SOP8	BP3309
BL8329	PSR Single-Stage APFC Offline LED Controller	PWM	85~264V(AC)	±3%	优化处理	SOP8 SOT23-6	BP3319 SY5830

### Controller for Adaptive 100/120Hz Current Ripple Removing Circuit (去纹波电流控制芯片)

Part No.	Features	Mode	VIN	Current Accu.	THD	Package	Reference
BL8392	Current Ripple Removing Circuit	Ext-MOS	-	-	-	SOT23-6	JW1221

### DC/DC LED Driver (DC/DC LED驱动)

Application: LED lighting driver

Part No.	Features	Mode	VIN	IOUT	Current Accu.	EMI/EMC	IQ	Package	Reference
BL9582B	High Brightness Step-down LED Driver With Internal Switch Driving Up To 9 High Power LEDs, Operating Temperature Range: -40~125°C	Hysteretic Control, 1MHz Max	6~32V	1.4A	±4%	优化处理	50μA	SOT89-5	PT4115

## Linear Constant LED Driver (线性恒流LED驱动电路)

Application: LED Backlight or LED Display

Part No.	Mode	VIN	No. Channels	Driving Current	Freq. (MHZ)	Accu.	Channel Matching	Package	Application	Reference
BL8580	Linear	2.7~6V	3	20mA×3	N/A	±3%	N/A	SOT23-6	PHONE,PDA,GPS	AMC7110
BL8581	Linear	2.8~5.5V	4	20mA×4	N/A	±3%	±3%	MSOP8	PHONE,PDA,GPS	AMC7111

\*Order by Application, No. Channels

## Step-up White LED Driver (升压型LED背光/照明驱动电路)

Applications: Step-up converter to drive white-LED, constant current output, LED backlight

Part No.	Mode	VIN	VOUT	IQ	FOSC	Eff.	FB Voltage	Package	Application
BL8532B	PFM	0.8~9V		36uA	300kHz	82%	200mV	SOT89-5	Step-up Converter To Drive One Or Two 1W White LEDs
BL8548	PFM	2~6V	19V Max	93uA	3MHz	80%	200mV	SOT23-6	STBA,PHONE,PDA,GPS
BL8040	PWM	2.5~5.5V	28V Max	150uA	1.2MHz	90%	250mV	SOT23-6	
BL8041	PWM	2.5~5.5V	30V Max	150uA	1.2MHz	96%	1.23V	SOT23-5	

## MOSFET 金属氧化物半导体场效应管

Part No.	Mode	VDS(Max.)	ID(Max.)	RDS(on)(Max.)	Package	Reference
BLM2301	P-Channel	-20V	-3A	64mΩ	SOT23	APM2301 SI2301
BLM2305	P-Channel	-20V	-4.1A	39mΩ	SOT23	APM2305 SI2305
BLM3407	P-Channel	-30V	-4.1A	55mΩ	SOT23	3407 2307
BLM3401	P-Channel	-30V	-4.2A	50mΩ	SOT23	AO3401 2303
BLM9435	P-Channel	-30V	-5.1A	48mΩ	SOP8	9435
BLM4953	Dual P-Channel	-30V	-5.1A	48mΩ	SOP8	4953
BLM4435	P-Channel	-30V	-9.1A	15mΩ	SOP8	4435
BSP304	P-Channel	-300V	-170mA	17Ω	TO92	BSP304
BLM2302	N-Channel	20V	2.9A	30mΩ	SOT23	SI2302
BLM8205	Dual N-Channel	20V	4A	19.5mΩ	SOT23-6	8205
BLM2312	N-Channel	20V	5A	22mΩ	SOT23	
BLM8205A	Dual N-Channel	20V	6A	21mΩ	TSSOP8	8205A
BLM8205B	Dual N-Channel	20V	6A	16mΩ	TSSOP8 SOT23-6	
BLM9926	Dual N-Channel	20V	6A	26mΩ	SOP8	9926
BLM2008E	Dual N-Channel(ESD)	20V	6A	17mΩ	TSSOP8	8205E
BLM2004NE	Dual N-Channel(ESD)	20V	6A	17mΩ	SOT23-6	8205E
BLM2010E	Dual N-Channel(ESD)	20V	7A	15mΩ	TSSOP8	8205E



Part No.	Mode	VDS(Max.)	ID(Max.)	RDS(on)(Max.)	Package	Reference
BLM2006NE	Dual N-Channel(ESD)	20V	7A	15mΩ	SOT23-6	8205E
BLM2304	N-Channel	30V	3.6A	39mΩ	SOT23	
BLM3400	N-Channel	30V	5.8A	28mΩ	SOT23	3400
BLM3404	N-Channel	30V	5.8A	25.5mΩ	SOT23	
BLM3050K	N-Channel	30V	50A	8mΩ	TO252	
BLM138K	N-Channel(ESD)	50V	220mA	1Ω	SOT23	
BLM7002	N-Channel	60V	115mA	1.1Ω	SOT23	2N7002
BLM7002K	N-Channel(ESD)	60V	300mA	1Ω	SOT23	2N7002K
BLV108	N-Channel	200V	300mA	5Ω	TO92	BS108

\*Order by VDS (Max.), ID (Max.)

Part No.	Mode	VSSS(Max.)	IS(Max.)	RSS(on)(Max.)	Package	Reference	Application
BLM8811	Dual N-Channel	12V	21A	5.5mΩ	CSP6	EFC6611R	移动电源, 锂电池

## Discrete Devices 分立器件类

NPN Silicon Epitaxial Transistor (高频双极NPN晶体管)

Part No.	Polarity	VCEO(Max.)	IC(Max.)	Ft(Typical)	Package	Reference	Application
BLH4083	NPN	12V	50mA	3.0GHz	SOT23	2SC4083	LNA
BLH4083B	NPN	12V	80mA	4.0GHz	SOT23	2SC4083	LNA
BLH3356	NPN	12V	100mA	5.0GHz	SOT23	2SC3356	LNA
BLH3356B	NPN	12V	200mA	5.0GHz	SOT23	2SC3356	LNA

## Standard Interface Circuit 接口电路

Communication Terminal Applications (通讯终端应用电路)

Part No.	Features	VDD	Package	Reference
BL34018	Voice Switched Speakerphone Circuit	6~11V	SOP28 DIP28	MC34018
BL34118	Voice Switched Speakerphone Circuit	3~6.5V	DIP28 SOP28	MC34118

## Analog Switch (模拟开关)

Part No.	Mode	Features	VDD	Package	Reference	Applications
BL1551	SPDT	2.7Ω 300MHz Low-Voltage Analog Switch	1.8~5.5V	SC70-6	FSA3157 NLASB3157 FSA4157	Mobile Phone, PDA
BL4684C	Dual SPDT	0.4Ω 27MHz Analog Switch	1.65~5.5V	CSP10	PI5A4684 MAX4684	Mobile Phone, PDA
BL1554	4 SPDT	0.4Ω 42MHz Analog Switch	1.6~4.2V	TQFN16	NLAS3699 FSA2469 PI3A412	Mobile Phone, PDA
BL1530	DPDT	High Speed USB 2.0(480Mbps)	2.3~5 V	UTQFN10	SGM7222 FSUSB30	Mobile phone, DC and Notebook
BL1532	DPDT	High Speed USB 2.0(480Mbps)	2.3~5V	UTQFN10 MSOP10	SGM7227 FSUSB42	Mobile phone, DC and Notebook
BL1533	4 SPDT	5.0Ω 500MHz Analog Switch	4~5.5V	SOP16 SSOP16	PI5V330 FSAV330 TS5V330	LCD TV, STB, DVD
BL3257	4 SPDT	Quad SPDT Analog Switch	4~5.5V	SOP16 SSOP16	CBT3257 FST3257	LCD TV, STB, DVD

## USB Dedicated Charging Port (DCP) Controller (USB专用充电端口控制器电路)

Part No.	Features	VDD	Package	Applications	Reference
BL2513	USB Dedicated Charging Port (DCP) Controller (Double USB Port)	4.5~5.5V	SOT23-6	Power Bank, Portable Power Supply, AC-DC Adapter With USB Port	TPS2513
BL2513A	USB Dedicated Charging Port (DCP) Controller (Double USB Port)	4.5~5.5V	SOT23-6	Power Bank, Portable Power Supply, AC-DC Adapter With USB Port	TPS2513A
BL2514	USB Dedicated Charging Port (DCP) Controller (Single USB Port)	4.5~5.5V	SOT23-6	Power Bank, Portable Power Supply, AC-DC Adapter With USB Port	TPS2514
BL2514A	USB Dedicated Charging Port (DCP) Controller (Single USB Port)	4.5~5.5V	SOT23-6	Power Bank, Portable Power Supply, AC-DC Adapter With USB Port	TPS2514A
BL2521	USB High-Voltage Dedicated Charging Port Interface IC For QC2.0	4.0~5.5V	SOP8,SOT23-6	Power Bank, Portable Power Supply, AC-DC Adapter With USB Port	CHY100

## Class AB Audio Amplifier (AB类音频功放电路)

Applications: (1)Mobile phone, (2)Cordless Phone, (3)PDA and handheld terminal, (4)MP3/MP4 player, (5)Digital Photo Frame, (6)GPS/PND, (7)USB Speaker, (8)Portable DVD, (9)MID/UMPC, (10)TV, ( 11 ) MID,(12)Multimedia Speaker

Part No.	Features	Output	PSRR	VDD	Package	Applications	Reference
BL34119	Low Power Audio Amplifier	400mW		2~16V	SOP8 TSSOP8	(2)	MC34119
BL6281	Audio Power Amplifier	1.1W	60dB	2.2~5.5V	MSOP8 SOP8	(1)(4)(11)	LM4990
BL6213	Audio Power Amplifier	1.2W	70dB	2.2~5.5V	NLGA9L	(1) (3)	
BL6212	Audio Power Amplifier	1.3W	68dB	2.2~5.5V	CSP9 MSOP8 DFN8	(1) (3)	LM4990 NCP2890
BL6282	Audio Power Amplifier	1.6W	60dB	2.2~5.5V	SOP8	(8)(12)	LM4871 XX8002
BL4863	Audio Power Amplifier Plus Stereo Headphone Function	2.2 W x 2	73dB	2~5.5V	TSSOP20 DIP16 SOP16	(5) (6) (8) (9)	LM4863
BL4863B	Audio Power Amplifier Plus Stereo Headphone Function	2.5 W x 2	60dB	2~5.5V	SOP16	(7)	LM4863

\*Order by Output Watt



### Class D Audio Amplifier (D类音频功放电路)

Applications: (1)Mobile phone, (2)Cordless Phone, (3)PDA and handheld terminal, (4)MP3/MP4 player, (5)Digital Photo Frame, (6)GPS/PND, (7)USB Speaker, (8)Portable DVD, (9)MID/UMPC, (10)TV.

Part No.	Features	Output	PSRR	VDD	Package	Applications	Reference
BL6306	Mono Filter-Free Class D Audio Power Amplifier	2.6 W	75dB	2.5~5.5V	MSOP8 DFN8 SOP8	(5) (6) (7) (8)	TPA2005
BL6331B	Mono Non-clip Class D Audio Power Amplifier	3.0 W	80dB	2.5~5V	CSP9	(1) (3) (6) (8)	YDA145
BL6356	Stereo Class D Audio Power Amplifier	10W x 2	52dB	4~12V	TSSOP28	(7) (10)	TPA3110

\*Order by Output Watt

### Video Filter Driver (视频滤波驱动)

Part No.	Features	BandWidth	VDD	ESD	Package	Applications	Reference
BL1513	3 Channel 5th Order Standard Definition Video Filter Driver	7.7 MHz	3.3~5.5V	8KV	SOP8 MSOP8	Set Top Box	SGM9119
BL1511	1 Channel 5th Order Standard Definition Video Filter Driver	8 MHz	3.3~5.5V	8KV	SC70-5	Set Top Box	SGM9111
BL1511B	1 Channel 5th Order Standard Definition Video Filter Driver	8 MHz	3.3~5.5V	8KV	SC70-5	Set Top Box	SGM9113
BL1516	3 Channel 6th Order High Definition Video Filter Driver	35 MHz	3.3~5.5V	8KV	SOP8	Set Top Box	SGM9116

### USB Audio Controller with Built in Class D Audio Amplifier (内置D类音频功放的USB声卡控制器)

Part No.	Features	Output	THD	VDD	Package	Applications	Reference
BL1361S	16bit 44.1/48KHz Sample Rate, USB HID Compliant	2.6 W x2	0.3%	3.5~5V	SOP16	USB Speaker	
BL1361	16bit 44.1/48KHz Sample Rate, Audio Line out, USB HID Compliant	2.6 W x2	0.3%	3.5~5.5V	SOP28	USB Speaker	

### Low Power Narrow Band FM IF (单片窄带调频接收电路)

Part No.	VCC	Input Limiting Voltage	ICC	Operating Frequency	Audio Output Voltage	Filter Gain	Operating Temperature	Package	Reference
BL3361E	2~8V	1μV	5.2mA	Up to 60MHz	200mV	50dB	-40~75°C	SOP16	

### ADC (高速高精度ADC系列)

Part No.	Features	SNR	SFDR	Power Consumption	Package	Reference
BLAD14D80	14bit 80 MSPS 1.8V Dual Channel ADC	76dBFS	>90dBc	470mW	QFN64	
BLAD14D105	14bit 105 MSPS 1.8V Low Noise Dual Channel ADC	76dBFS	>90dBc	730mW	QFN64	
BLAD14D125	14bit 125 MSPS 1.8V Dual Channel ADC	76dBFS	>90dBc	760mW	QFN64	

## Standard Smart Card Interface (标准智能卡接口电路)

Part No.	Features	VDD	Package	Reference	Applications
BL1524	Analog Interface For Asynchronous 3 Or 5V Smart Cards	2.7~6.5V	SOP28	TDA8024	STB, IC Card Reader

## Programmable Unit 可编程类

### General Purpose MCU (通用微控制器)

Part No.	VDD	ROM	RAM	TIMER	OSC	I/O	INT	ADC	PWM	PKG	OTHER
BL21P01	2.4~5.5V	1Kx14 OTP	48B	2 x8bit	325kHz~4MHz, IRC 4MHz	12	1	-	1CH	SOP14 SOP8 TSSOP8 SOT23-6	STOP, KBI, CMP, BUZZER
BL23P40	2.4~5.5V	4K x8 OTP	128B	2 x16bit	ILRC 32KHz, IRC 8MHz	14	4	13CH x12bit	4CH	SOP16 SOP8	STOP, WAIT, KBI, CMP, PPG, UART
BL23P42	2.4~5.5V	4K x8 OTP	128B	2 x16bit	ILRC 32KHz, IRC 8MHz	18	4	17CH x12bit	2CH	SOP16 SOP20 QFN20	STOP, WAIT, KBI, CMP, UART
BL23P516	1.8~3.6V	16K x8 OTP	512B	3 x16bit	ILRC 32KHz, IRC 8MHz	49	4	5CH x12bit	-	LQFP48 LQFP64	STOP, WAIT, KBI, LCD, UART, CMP
BL23M1610	1.8~5.5V	16Kx8 MTP	512B	3 x16bit	ILRC 32KHz, IRC 16MHz	22	4	13CH x12bit	3CH	SOP20 QFN20 QFN24	STOP, WAIT, KBI, CMP, I2C, UART
BL23M1620	1.8~5.5V	16Kx8 MTP	512B	3 x16bit	ILRC 32KHz, IRC 16MHz	30	4	16CH x12bit	3CH	SOP28 SOP32 QFN32	STOP, WAIT, KBI, CMP, I2C, UART

### Moto Control MCU (电机控制微控制器)

Part No.	VDD	ROM	RAM	EEPROM	TIMER	OSC	I/O	ADC	PWM	PKG	OTHER
BL23F30	2.7~5.5V	32K x8 FLASH	256B 3072B	2048B	3 x16bit	IRC 60MHz (500K PLL)	45	12CH x12bit	6CH x16bit 1CH x16bit	LQFP48	STOP, WAIT, INT, SPI, UART, CMP
BL23F32	2.7~5.5V	32K x8 FLASH	256B 3072B	2048B	3 x16bit	IRC 20MHz (500K PLL)	25	12CH x12bit	4CH x16bit	SOP28	STOP, WAIT, INT, SPI, UART, CMP

### Real Time Clock (微功耗实时时钟)

Part No.	Alarm Sets	Periodic INT	Standby	CLK/INT Output	Clock Adj.	I/O	Clock VDD	Work VDD	Package	Reference
BL5372	2	2Hz to 1 Month	400nA @5.0V	Open Drain	Yes	Two-wire Serial	1.8~5.5V	1.8~5.5V	SOP8 TSSOP8	5C372
Part No.	Clock VDD	Work VDD	Accuracy				I/O		Package	Reference
BL8025T	1.4~5.5V	1.6~5.5V	@23C <0.04S/d, Temperature Coefficient <0.01S/d.C				Two-wire Serial		SOP14	Rx8025T



## EEPROM 存储器类

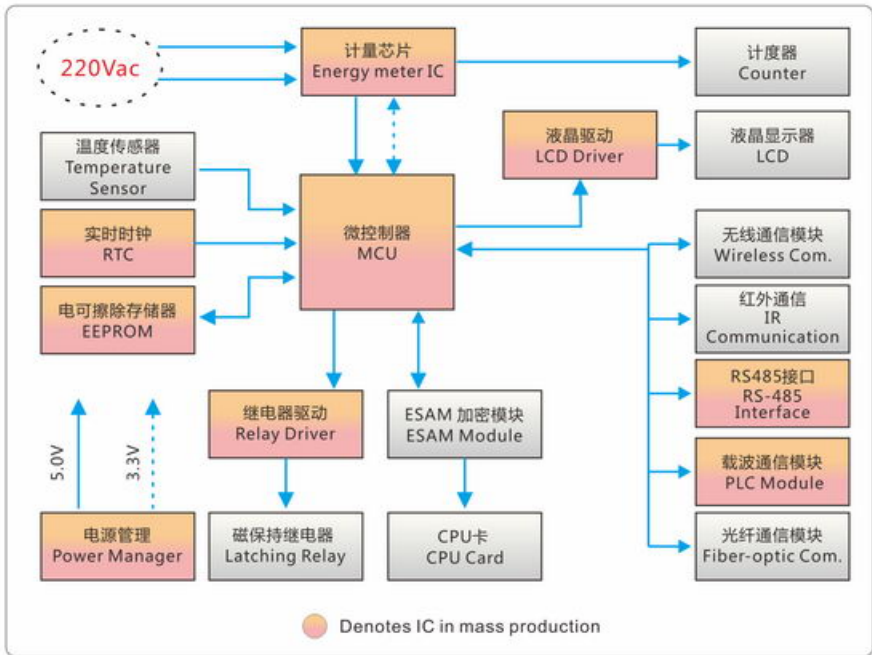
Part No.	Capacity	Interface	VDD	Package	Reference
BL24C02A	2K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8	24C02
BL24C04A	4K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8	24C04
BL24C08A	8K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8	24C08
BL24C16A	16K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8	24C16
BL24C32A	32K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8 WCSP4	24C32
BL24C64A	64K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8 WCSP4	24C64
BL24C128A	128K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8 WCSP4	24C128
BL24C256A	256K bits	Two-wire Serial	1.7~5.5V	DIP8 SOP8 TSSOP8 UDFN8 WCSP4	24C256
BL24C512G	512K bits	Two-wire Serial	1.7~5.5V	SOP8	24C512

## Smoke Detector 烟雾检测电路

Part No.	Features	Hush	Output Signal	Standby Current	UL Certified	Package
BL5910	Photoelectric Type With I/O	N/A	Continuous Alarm	10μA	Pass	DIP16 SOP16
BL5912	Photoelectric Type With I/O	N/A	Temporal Alarm	10μA	Pass	DIP16 SOP16
BL5980	Low Voltage Photoelectric Smoke Detector ASIC with Interconnect and Timer Mode	Yes	Continuous /Temporal selectable	1μA		SOP16

## Belling Solutions 贝岭解决方案

### 贝岭IC在智能电表中的应用 (Belling Energy Metering Solution)

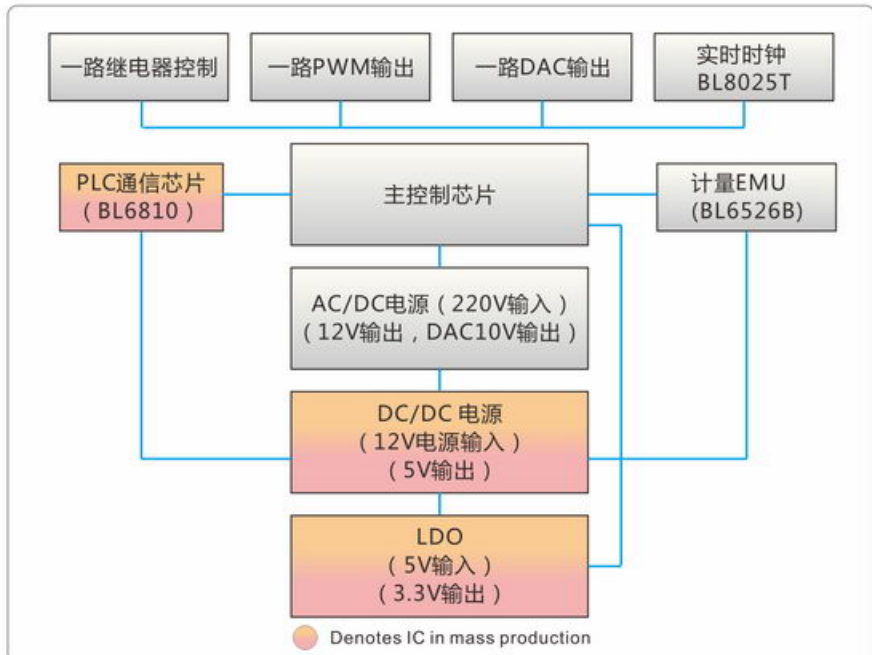


各电表方案选型推荐表

电表方案类型推荐	计量产品	液晶驱动	485接口	MCU
国网单相智能电表方案	BL6523GX	BL55070/模块	BL3085A	BL6531/6536
南网单相智能电表方案	BL6523GX	BL55070/模块	BL3085A	BL6531/6536
三相普通有功电表方案	BL6513C	BL55066/28	BL3085A	
三相多功能表	BL6522B	BL55077	BL3085A	

注:电表平台PLC产品BL6810, 三相计量芯片BL6522B已量产, 欢迎联系了解。

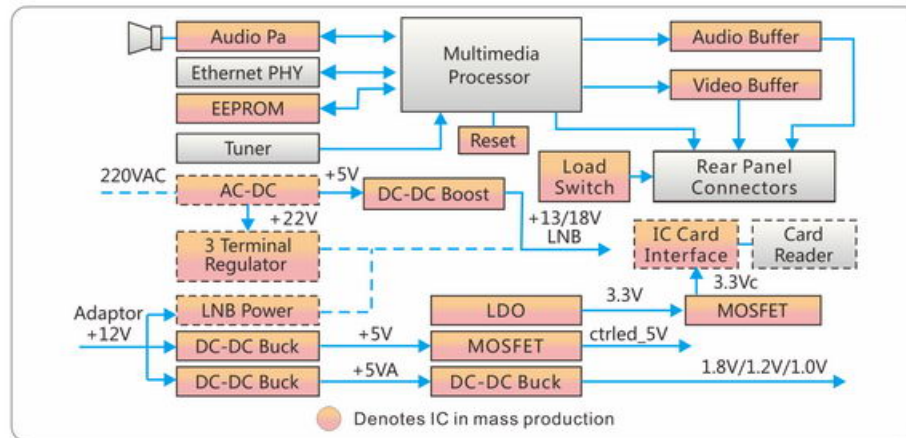
### 贝岭IC在路灯控制器中的应用 (Belling Streetlight Controller Solution)



Type	Part No.	Description	Package
LDO	BL1117	1A Bipolar LDO	SOT223 TO252
	BL9152/9153	40V Input 500mA Low Power Consumption	SOT89-3
DC-DC	BL9342	40V Input 600mA DC-DC	SOT23-6
EEPROM	BL24C02~512	2K~512Kbit EEPROM	DIP8 SOP8 TSSOP8 DFN8 WLCSP4
EMU	BL6526B	Single Phase Multifunction Metering IC(SPI)	SOP16
	BL6523GX	Single Phase Multifunction Metering IC(Uart)	SOP16
	BL6523B	Single Phase Multifunction Metering IC(SPI)	SSOP24
	BL0937	Single Phase Multifunction Metering IC(Pulse)	SOP8
PLC	BL6810	BPSK/DSSS Narrow Band PLC SOC	LQFP32
RTC	BL8025T	Built-in 32.768kHz-DTCXO, Real Time Clock Module	SOP14

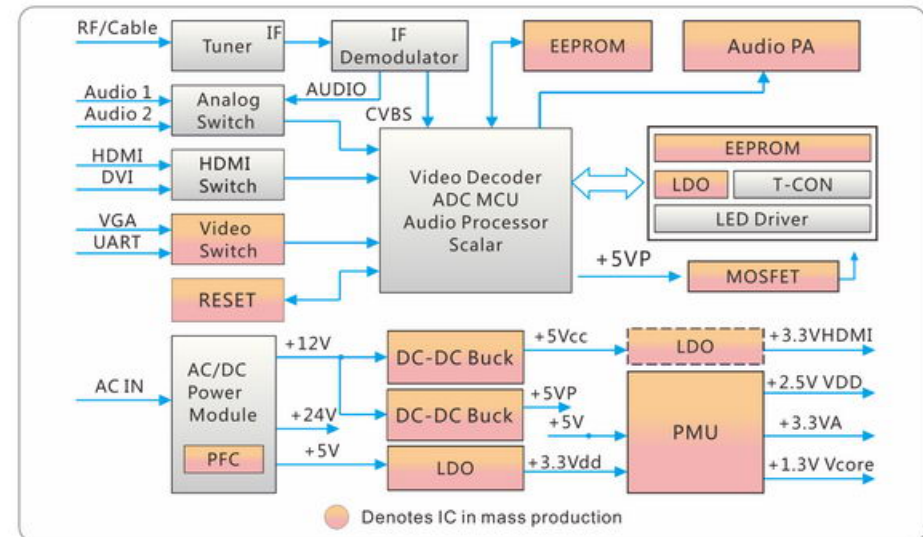


## 贝岭IC在机顶盒中的应用 ( Belling STB Solution)



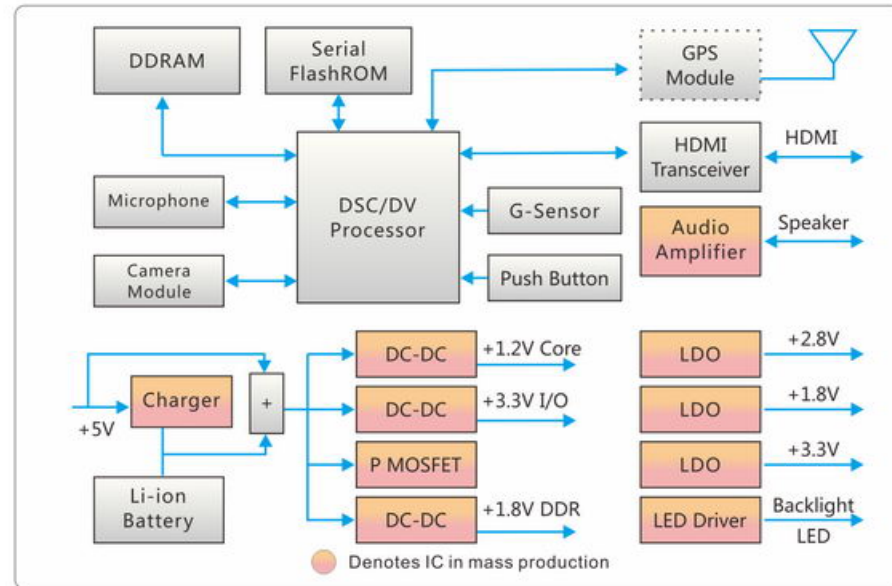
Type	Part No.	Description	Package
Linear Voltage Regulator	BL1117	1A Bipolar LDO	SOT223 TO252
	BL9110	1A CMOS LDO	SOT223 TO252
3 Terminal Regulator	BL317B	1.5A Bipolar Adjustable	TO220 SOT223 TO252
	BL8027	1.5A /6V 1.5MHz DC-DC Sync Buck PWM/PFM	SOT23-5
DC-DC Buck Converter	BL8031	2A /16V Synchronous Buck	SOT23-6
	BL8032	2A /18V Synchronous Buck	SOT23-6
	BL9309	2A/5.5V DC/DC Synchronous Buck	SOP8
	BL8076	2A/6V 3MHz DC/DC Sync Buck PWM/PFM	SOT23-5 DFN2x2-8L
	BL9384B	3A /20V Synchronous Buck	ESOP8
DC-DC Boost	BL8041	1.2MHz/30V Max Boost Converter	SOT23-5
Reset	BL8509C	Voltage Detector, Reset	SOT23-3 SOT23-5
EEPROM	BL24C02~512	2K~512Kbit EEPROM	DIP8 SOP8 TSSOP8 DFN8
	BL6281	1.1W Class AB	MSOP8 SOP8
Audio	BL6282	1.6W Class AB	TSSOP14 SOP14
	BL6306	2.6W Class D	MSOP8
Analog Switch	BL1551	2.7Ω 300MHz SPDT	SC70-6
Video Buffer	BL1511/B	1 channel 5th Order SDTV Video Filter	SOP8 SC70-5
	BL1513	3 channel 5th Order SDTV Video Filter	SOP8
	BL1516	3 channel 3rd Order HDTV Video Filter	SOP8
MOSFET	BLM2301	20V/3A, 60mΩ P-MOSFET	SOT23-3
	BLM3400	30V/5.8A, 28mΩ N- MOSFET	SOT23-3
	BLM7002/K	60V/0.115A 2Ω N-MOSFET/With ESD Diode	SOT23-3
Load Switch	BL2553	1.5A Load Switch With ADJ Current Limit	DFN2x2-6L SOT23-5
	BL2554	Max 1.5A Current Limit Load Switch	SOT23-5
LNB Power	BL1542	Single Chip LNB Bias, Control And Power Management	QFN16
IC Card Interface	BL1524	3V/5V Smart Card Analog Interface	SOP28
AC-DC	BL8891	15W Current Mode PWM Power Switch	DIP8 DIP7

## 贝岭IC在平板电视中的应用 ( Belling LCD TV Solution )



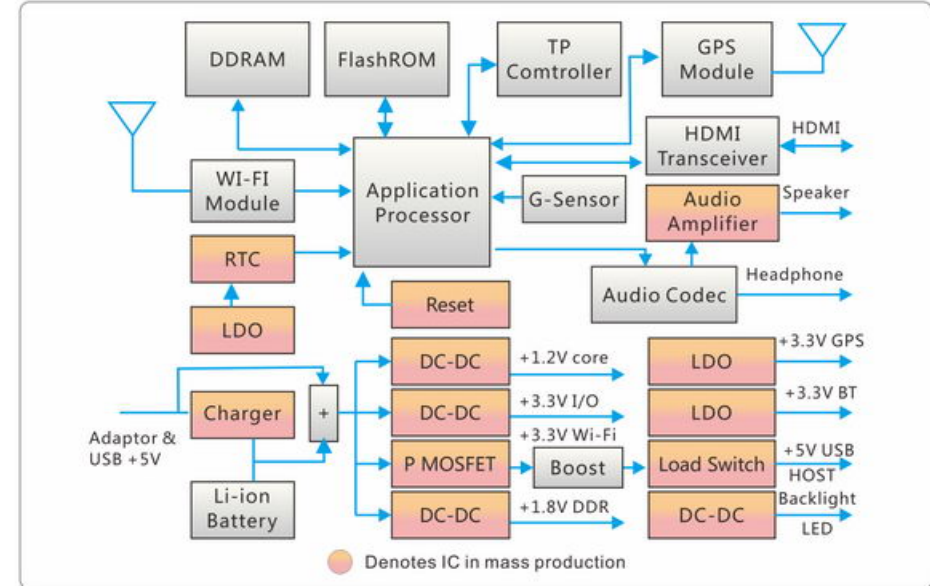
Type	Part No.	Description	Package
LDO	BL1117	1A Bipolar LDO	SOT223 TO252
	BL1118	Dual 1A Bipolar LDO	ESOP8
	BL9110	1A CMOS LDO	SOT223 TO252
	BL1084/1085	5A/3A Bipolar LDO	TO252 TO263
	BL9195/9198	300mA CMOS LDO	SOT23-3 SOT23-5
	BL8568	500mA CMOS LDO	SOT23-5
DC-DC Sync Buck	BL8027	1.5A /6V 1.5MHz DC-DC Sync	SOT23-5
	BL8031	2A /16V Synchronous Buck	SOT23-6
	BL8032	2A /18V Sync DC/DC Step-Down	SOT23-6
	BL9382C	2A /24V Sync DC/DC Step-Down	SOP8
	BL9371	3A /18V Sync DC/DC Step-Down	TSOT23-6
	BL9313	3A /18V Sync DC/DC Step-Down	TSOT23-6
	BL9384B	3A /20V Sync DC/DC Step-Down	ESOP8
Reset	BL8509C	Voltage Detector, Reset	SOT23-3 SOT23-5
EEPROM	BL24C02~512	2K~512Kbit EEPROM	SOP8 TSSOP8 DFN8 WLCSP4
Audio PA	BL6356	10W x 2 Class D	TSSOP24
Video Switch	BL3257	Quad SPDT Video Switch	SOP16 SSOP16
	BL1533	Quad SPDT 500MHz	SOP16 SSOP16
MOSFET	BLM3407	30V/4.1A, 55mΩ P Channel	SOT23-3
	BLM3401	30V/4.2A, 51mΩ P Channel	SOT23-3
	BLM4435	30V/9.1A, 15mΩ P Channel	SOP8
	BLM0117K	100V/17A, 70mΩ N Channel	TO252
PMU	BL8082/B	1.2A Sync Buck Dual 1A LDOs	DFN3x3-12

贝岭IC在行车记录仪中的应用 ( Belling Car Black Box Solution)



Type	Part No.	Description	Package
DC-DC	BL8027	1.2A/6V 1.5MHz Sync Buck	SOT23-5
	BL8076	2A/6V 3MHz Sync Buck	SOT23-5 DFN2x2-8L
LDO	BL8061	2uA Quiescent Current 250mA	SOT23-3 SOT89-3
	BL9198	300mA/6V High PSRR CMOS LDO	SOT23-5 SC70
	BL8568	500mA High PSRR LDO	SOT23-5 SC70 DFN1x1-4L
Li-ion Battery Charger	BL4054B	800mA Linear Li-ion Battery Charger	SOT23-5 TSOT23-5
	BL4056B	1A Linear Li-ion Battery Charger	ESOP8
	BL8573	0.5A/1.5A linear Li-ion Battery Charger	SOT23-6 ESOP8
	BL8578	2A Switch Mode Li-ion Battery Charger	DFN3x3-10L
Reset	BL8509C	Voltage Detector, Reset	SOT23-3 SOT23-5
MOSFET	BLM2301	20V/3A, 60mΩ P Channel MOSFET	SOT23-3
	BLM2305	12V/3.8A, 38mΩ P Channel MOSFET	SOT23-3
	BLM3401	30V/4A, 50mΩ P Channel MOSFET	SOT23-3
Audio Amplifier	BL6306	2.6W Class D Audio Amplifier	DFN8 SOP8 MSOP8
	BL6281	1.1W Class AB Audio Amplifier	MSOP8 SOP8
LED Driver	BL8548	3MHz/19V LED Backlight LED Driver	SOT23-6

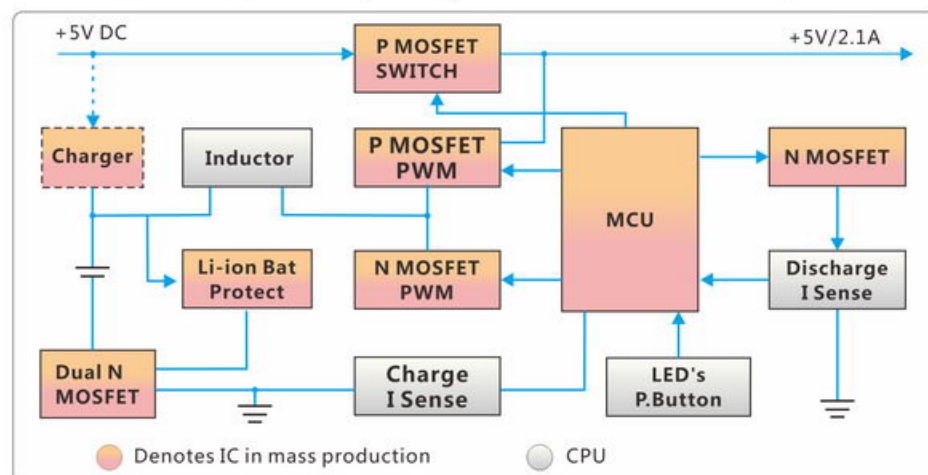
贝岭IC在MID中的应用 ( Belling MID Solution)



Type	Part No.	Description	Package
DC/DC	BL8026	1.2A/7V 1.5MHz DC-DC Sync Buck	SOT23-5
	BL8027	1.5A/6V 1.5MHz DC-DC Sync Buck	SOT23-5
	BL8548	3MHz/19V LED Backlight Driver	SOT23-6
	BL8040	1.2Mhz/30V Boost LED Driver	SOT23-6
LDO	BL9198	300mA/6V High PSRR CMOS LDO	SOT23-5 SC70
	BL8064	1uA Quiescent Current	SOT23-3 SOT89-3
Li-ion Battery Charger	BL4054B	800mA Linear Li-ion Battery Charger	SOT23-5 TSOT23-5
	BL4056B	1A Linear Li-ion Battery Charger	ESOP8
	BL8573	0.5A/1.5A linear Li-ion Battery Charger	SOT23-6 ESOP8
	BL8578	2A Switch Mode Li-ion Battery Charger	DFN3x3-10L
Reset	BL8509C	Voltage Detector, Reset	SOT23-3 SOT23-5
Load Switch	BL2553	1.4A Adjustable Current Limit	DFN2x2-6L SOT23-5
	BL2554	Max 1.5A Current Limit Load Switch	SOT23-5
MOSFET	BLM2301	20V/3A, 60mΩ P Channel MOSFET	SOT23-3
	BLM2305	12V/3.8A, 38mΩ P Channel MOSFET	SOT23-3
	BLM3401	30V/4A, 50mΩ P Channel MOSFET	SOT23-3
Audio Amplifier	BL6306	2.6W Class D Audio Amplifier	DFN8 SOP8 MSOP8
	BL6281	1.1W Class AB Audio Amplifier	MSOP8 SOP8
RTC	BM5363	Real Time Clock	SOP8 TSSOP8



## 贝岭IC在移动电源中的应用 (Belling Mobile Power Solution)



Type	Part No.	Description	Package
MCU	BL23P40	8bit MCU with 13Chx12bit ADC and Programmable PWM	SOP16 SOP14 SOP8
	BL23P42	8bit MCU with 17Chx12bit ADC and Programmable PWM	SOP16 SOP20 QFN20
LDO	BL8503	Micro Power 250mA LDO	SOT23-3 SOT89-3 TO92
	BL8064	1uA Micro Power 200mA LDO	SOT23-3 SOT89-3
	BL8062	250mA/16V Micro Power LDO	SOT23-3 SOT89-3
Charger	BL4054B	800mA Lion Battery Charger	SOT23-5 TSOT23-5
	BL4056B	4.2V/4.35V 1A Li-ion Battery Charger	ESOP8
	BL8573	4.2V/4.35V 0.5A/1.5A Li-ion Battery Charger	ESOP8 SOT23-6
	BL8578	4.2V/4.35V 2A Switching Charger	DFN3x3-10L
MOSFET	BLM2302	20V/3.2A, 50mΩ N MOSFET	SOT23-3
	BLM3401	30V/4.2A, 50mΩ P MOSFET	SOT23-3
	BLM3400	30V/5.8A, 28mΩ N MOSFET	SOP8
	BLM9926	20V/6A, 29mΩ Dual N MOSFET	SOP8
	BLM8205	19V/6A, 21mΩ Dual N MOSFET	SOT23-6
	BLM8205A	19V/6A, 21mΩ Dual N MOSFET	TSSOP8
	BLM8205B	20V/6A, 16mΩ Dual N MOSFET	SOT23-6 TSSOP8
	BLDW01	Single Cell Lion Battery Protection	SOT23-6
USB DCP Controller	BL2513/A	Dual USB Dedicated Charging Port Controller	SOT23-6
	BL2514/A	USB Dedicated Charging Port Controller	SOT23-6
Three in One Charger /Boost Power Management	BL9B12	1A Switching Charge, 5V/1.8A Boost	SOP16
	BL9B15	1.5A Switching Charge, 5V/2.1A Boost	SOP16
	BL9B21	2.5A Switching Charge 5V/3A Boost	SOP16

## Introduction of Shanghai Belling 上海贝岭简介



- 上海贝岭公司创建于1988年，是国内第一家微电子行业合资企业。
- 公司成立初期即引进国外先进技术和质量管理体系，以可靠的产品质量树立长久的品牌形象。1998年改制上市，成为中国微电子行业第一家上市公司。目前华大半导体有限公司（简称华大半导体）为公司第一大股东。
- 公司产品涉及电能计量、电源管理、通讯产品、照明电路、MCU，EEPROM等领域，主要目标市场为智能电表、LCD TV/Monitor、STB、移动电源、网通、手机相关及其它消费电子产品。
- 公司第一大股东华大半导体作为国内前三的IC设计企业，集中旗下企业打造良好的供应链资源。上海贝岭自身与国内晶圆，封装厂也建立了长期稳定的合作关系。良好的产业链资源，先进的质量管理体系为我们快速响应市场需求、保证客户竞争力提供了有力保障。
- 来自海外知名设计公司及本土具有丰富正向设计经验的工程师组成贝岭产品设计团队，保证产品设计的优质可靠性。
- 除上海总部，设深圳、出口、北京销售办事处，为客户提供方便快捷的服务。强大的FAE团队支持，帮助客户快速完成产品设计导入，创造更多价值。



# Index of Part Number 型号索引

BL0921	06	BL24C256A	15	BL55066	07	BL8021	01	BL8329	09	BL8573	04	BLM138K	11
BL0930E	06	BL24C32A	15	BL55070	07	BL8023C	08	BL8331	08	BL8578	04	BLM2004NE	10
BL0937	06	BL24C512G	15	BL55072	07	BL8023D	08	BL8332C	08	BL8580	10	BLM2006NE	11
BL1084	04	BL24C64A	15	BL55076	07	BL8023E	08	BL8332D	08	BL8581	10	BLM2008E	10
BL1085	04	BL2513	12	BL55077	07	BL8023F	08	BL8332R	08	BL8851	06	BLM2010E	10
BL1117	04	BL2513A	12	BL55080	07	BL8025	01	BL8332S	08	BL8891B	06	BLM2301	10
BL1117C	04	BL2514	12	BL55087	07	BL8025T	14	BL8333D	08	BL9110	04	BLM2302	10
BL1118	04	BL2514A	12	BL5910	15	BL8026	01	BL8333R	08	BL9152	03	BLM2304	11
BL1361	13	BL2521	12	BL5912	15	BL8027	01	BL8333S	08	BL9153	03	BLM2305	10
BL1361S	13	BL2553	05	BL5980	15	BL8031	01	BL8335	09	BL9180	03	BLM2312	10
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BL1511B	13	BL2557	05	BL6213	12	BL8040	10	BL8335B	09	BL9195	03	BLM3400	11
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BL1533	12	BL3085NE	08	BL6501A	06	BL8064	03	BL8392	09	BL9320	01	BLM7002	11
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BL23F30	14	BL34018	11	BL6523GX	06	BL8073	04	BL8531	02	BL9382C	02	BLM8811	11
BL23F32	14	BL34118	11	BL6526B	07	BL8076	01	BL8531C	02	BL9384B	02	BLM9435	10
BL23M1610	14	BL34119	12	BL6528A	07	BL8082	05	BL8532B	10	BL9582B	09	BLM9926	10
BL23M1620	14	BL4054B	04	BL6528B	07	BL8082B	05	BL8536	02	BL9641	02	BLV108	11
BL23P40	14	BL4056B	04	BL6531	07	BL8083	05	BL8542B	02	BL9641B	02	BSP304	10
BL23P42	14	BL431	06	BL6536	07	BL8085	05	BL8548	10	BLAD14D105	13		
BL23P516	14	BL4684C	12	BL6810	07	BL8086	05	BL8558	03	BLAD14D125	13		
BL24C02A	14	BL4863	12	BL7805	05	BL8087	05	BL8563	03	BLAD14D80	13		
BL24C04A	14	BL4863B	12	BL78D05	05	BL8089	05	BL8565	03	BLH3356	11		
BL24C08A	14	BL5372	14	BL78L05	05	BL8095	02	BL8566	03	BLH3356B	11		
BL24C128A	15	BL55024	07	BL78L05D	05	BL8312	08	BL8568	03	BLH4083	11		
BL24C16A	15	BL55028	07	BL78M05	05	BL8326	09	BL8569	04	BLH4083B	11		