

2024V2

能效监测 产品手册

用“芯”创造美好生活



公司及投资企业

央企控股

- 华大半导体持有上海贝岭股权比例为 **25.14 %**
- 其它为社会公众股

截至2024年6月末

- 股本 **7.09** 亿
- 总资产 **47.7** 亿元
- 净资产 **41.4** 亿元



产品系列-国内模拟产品线最全的IC设计公司

数据转换器产品

- 高速ADC产品
- 高精度ADC产品

EEPROM存储器

- 2K-2M全系列EEPROM存储器
- 广泛应用于智能电表,工业控制,汽车电子,摄像头模组,LCD Panel,光模块,空凋家电及消费电子领域。

电源管理系列

- LDO
- DC-DC
- AC-DC
- 充电管理芯片
- 电压检测/复位芯片
- 限流负载开关
- LED 照明驱动、背光
- 电压基准源
- OVP

标准信号产品

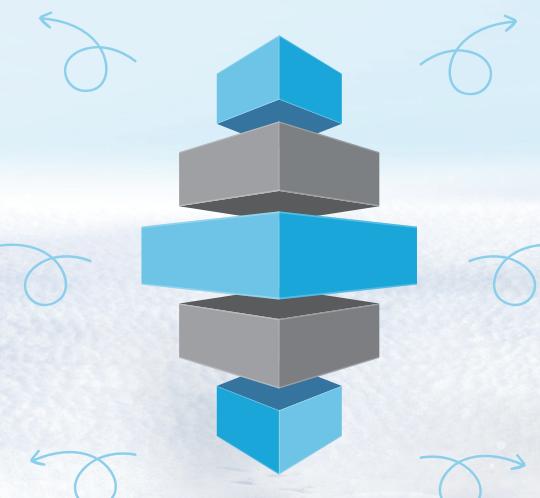
- RS485/RS232接口
- 模拟开关
- 马达驱动
- 继电器驱动
- 时钟电路
- 运放
- 音频功放

智能计量及系统集成产品

- 物联网计量
- 电力专用计量及SOC
- LCD液晶驱动
- 光通讯SOC
- 隔离器产品

功率器件系列

- HVMOSFET
- LVMOSFET
- HVSJ
- SGT
- IGBT



质量体系和环保

● 国内首批通过ISO认证的公司

1993年通过BVQI的ISO9000认证，
2004年通过BVQI的ISO14001认证。



● 国内IC领域第一家合资企业

成立之初引进欧美先进管理体系，提供通讯级应用的高质量产品

● 第一颗国产电能计量芯片

1995年推出第一颗国产单相电能计量芯片BL0932，
1998年开始大批量交货。

● 国内首批承诺产品全面符合ROHS指令的IC公司

2005年，公司产品全面承诺符合ROHS指令标准。
目前，公司产品已绝大部分符合HF标准

● 建立汽车电子产品管理体系

2016年开始布局汽车电子研发。
2019年Q3贝岭发布第一颗车规级汽车电子产品。
2022, 2023年上车数量超1亿颗。
2024年德国莱茵TÜV集团，正式向上海贝岭股份有限公司颁发ISO26262功能安全管理体系ASIL D认证证书。
45款通过车规认证产品，数十颗产品车规认证中。
50余款产品上车批量应用。
SBC, PMIC, SOC等系统集成芯片陆续推出。

EEPROM 存储芯片

Part No.	Capacity	Supply Voltage	Interface	Package
BL24C02F	2K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C04F	4K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C08F	8K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C16F	16K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C32F	32K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C64A	64K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C128A	128K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C256A	256K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C512A	512K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24C512B (ECC)	512K Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24CM1A	1M Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL24CM2A	2M Bits	1.7~5.5V	I ² C	DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5
BL25CM1A	1M Bits	1.7~5.5V	SPI	DIP8 SOP8 WLCSP8
BL25CM2A	2M Bits	1.7~5.5V	SPI	DIP8 SOP8 WLCSP8

Interface Circuit RS-485 接口芯片

Part No.	Features	VDD	Data Rate	ICC	Max. Points	Package	Range of Temp.	Reference
BL3085	±15KV ESD Protected RS485 Transceivers	3.3V, 5.0V	250Kbps/ 500Kbps	0.4mA	256	SOP8	-40~+85°C	MAX3085
BL3085N	±15KV ESD Protected Bus-Polarity Correcting RS485 Transceivers	5.0V	500Kbps	0.4mA	256	SOP8	-40~+85°C	Self-adaption
BL1585B	±15KV ESD Protected RS485 Transceivers	5.0V	500Kbps	0.2mA	256	SOP8	-40~+85°C	
BL1590	±15KV ESD Protected RS485 Transceivers	3.3V, 5.0V	16Mbps	1.5mA	32	SOP8	-40~+125°C	SN65176
BL1587	±15KV ESD Protected RS485 Transceivers	5.0V	2Mbps	0.9mA	128	SOP8	-40~+85°C	
BL3090	±15KV ESD Protected Full-duplex RS485/RS422 Transceivers	3.3V, 5.0V	500Kbps	0.7mA	256	SOP8	-40~+85°C	
BL3085T	±24KV ESD Protected RS485 Transceivers	3.3V, 5.0V	500Kbps	0.4mA	256	SOP8	-40~+85°C	
BL3085TN	±24KV ESD Protected Bus-Polarity Correcting RS485 Transceivers	5.0V	500Kbps	0.4mA	256	SOP8	-40~+85°C	Self-adaption

Interface Circuit 隔离 RS-485 接口芯片

Part No.	Features	VDDA (Logic-side)	VDBB (Bus-side)	Data Rate	VISO	CMTI	Package	Range of Temp.	Reference
BL7385	±15KV ESD Protected Isolated RS485 Transceivers	3.15~5.5V	4.5~5.5V	500Kbps	5KV _{RMS}	100kV/μs	SOIC16W	40~+85°C	ISO3082
BL7390	±15KV ESD Protected Isolated RS485 Transceivers	3.15~5.5V	3.0~5.5V	16Mbps	5KV _{RMS}	100kV/μs	SOIC16W	40~+125°C	

Interface Circuit RS-232 接口芯片

Part No.	Features	VCC	Data Rate (Max.)	No. of Tx.	No. of Rx.	Package	Range of Temp.	Reference
BL13232E	±15KV ESD Protected RS-232 Transceivers	3.0~5.5V	250kbps	2	2	SOP16 TSSOP16	40~+125°C	MAX3232E

Relay Driver 磁保持继电器驱动芯片

Part No.	Features	Rds(on) Typ.	Continuous Current	Peak Current	VDD	Package	Application
BL8023C	CMOS 型继电器驱动	12Ω@Vin=12V,RL=100ohm	300mA	500mA	5.0~36V	SOP8	电表, 功率补偿器, 磁保持继电器
BL8023D	CMOS 型继电器驱动	7.2Ω@Vin=12V,RL=100ohm	300mA	565mA	5.0~36V	SOT23-6	电表, 功率补偿器, 磁保持继电器
BL8023F	CMOS 型继电器驱动	9.7Ω@Vin=12V,RL=100ohm	300mA	400mA	5.0~36V	SOT23-6	电表, 功率补偿器, 磁保持继电器
BL8023K	CMOS 型继电器驱动	8.4/8.1Ω@Vin=12V,RL=100ohm	400mA	956/1090mA	5.0~40V	SOT23-6 SOP8	电表, 功率补偿器, 磁保持继电器
SA8359	H 桥驱动 驱动直流有刷电机或磁保持继电器	1.35Ω (HS+LS) @200mA	700mA	1500mA	6.0~40V	SOT23-6	电表, 功率补偿器, 磁保持继电器
ME1520	Bipolar 型继电器驱动	9.2ΩVin=12V,RL=100ohm	400mA	800mA	5.0~40V	SOT23-6	电表, 功率补偿器, 磁保持继电器

DC Motor Driver 马达驱动芯片

Part No.	VIN	Channel	Continuous Current	Peak Current	OTP	OCP	Package	Application	Reference
BL8310	2.0~6.8V	1	1A	1.5A	Y	N	SOP8 DFN8(2×2)	水气表, 智能锁	DRV8837C
BL113	2.1~6.8V	1	1A	1.5A	Y	N	SOT23-6	水气表	SY6712
BL5612	3.0~25V	1	1.5A	3.5A	Y	Y	SOP8	断路器	PN7705
BL5616	3.0~25V	1	1.5A	3.5A	Y	Y	SOP8	断路器, 智能电表	
BL5617	3.0~25V	1	3A	5A	Y	Y	SOP8	充电, 断路器	
SA8837	1.8~12V	1	1.8A	3A	Y	Y	SOP8 DFN2×2-8L	燃气表, 水表	DRV8837
SA8870	7.0~45V	1	3.5A	5A	Y	Y (可调)	ESOP8	充电桩, 断路器	DRV8870, A4950
BL1909	4.0~22V	2	1A	1.2A	Y	Y	SSOP10		1909

Darlington Transistor Arrays 达林顿管驱动

Part No.	Drivers Per Package	Output Current (Max.)	Output Voltage (Max.)	Package	Application
ULN2003	7	500mA	50V	SOP16	充电桩
ULN2003G	7	500mA	50V	TSSOP16	充电桩
ULN2803	8	500mA	50V	SOP18 QFN20(4x4)	充电桩

ADC/DAC 数据转换器

Part No.	Features	SNR	SFDR	Power	Interface	Package	Reference
BLAD16D80	16bit 80 MS/s 1.8V Dual Channel ADC	77.5dBFS @10MHz input 65.3dBFS @300MHz input	90.0dBc @10MHz input 78.0dBc @300MHz input	477mW	CMOS/LVDS	QFN64	
BLAD16D125	16bit 125 MS/s 1.8V Dual Channel ADC	77.5dBFS @10MHz input 66.0dBFS @300MHz input	90.0dBc @10MHz input 76.0dBc @300MHz input	796mW	CMOS/LVDS	QFN64	
BLAD14Q80	14bit 80 MS/s 1.8V Quad Channel ADC	72.6dBFS @10MHz input 68.5dBFS @200MHz input	85.5dBFS @10MHz input 70.5dBFS @200MHz input	525mW	Serial-LVDS	QFN48	
BLAD14Q125	14bit 125 MS/s 1.8V Quad Channel ADC	72.3dBFS @10MHz input 68.0dBFS @305MHz input	85.0dBc @10MHz input 70.0dBc @305MHz input	600mW	Serial-LVDS	QFN48	
BLAD16Q125	16bit 125 MS/s 1.8V Quad Channel ADC	78.6dBFS @10MHz input 72.8dBFS @305MHz input	90.0dBc @10MHz input 75.0dBc @305MHz input	620mW	Serial-LVDS	QFN48	
BLAD16Q80	16bit 80MS/s 1.8V Quad Channel ADC	78.6dBFS @10MHz input 72.8dBFS @305MHz input	90.0dBc @10MHz input 75.0dBc @305MHz input	531mW	Serial-LVDS	QFN48	
BL1040	14bit 80 MS/s 1.8V Dual Channel ADC	76.5dBFS @10MHz input 70.4dBFS @200MHz input	88.0dBc @10MHz input 79.6dBc @200MHz input	477mW	CMOS/LVDS	QFN64	
BL1063	16bit 125 MS/s 1.8V Quad Channel ADC	81.1dBFS @10MHz input 72.9dBFS @305MHz input	81.1dBFS @10MHz input 72.9dBFS @305MHz input	832mW	JESD204B	QFN56	
BL1064	16bit 80 MS/s 1.8V/3.3V Dual ADC	76.6dBFS @10MHz input 72.5dBFS @200MHz input	85.5dBFS @10MHz input 79.5dBFS @200MHz input	525mW	CMOS	QFN64	
BL1045	8 Channel 14bit 125 MS/s 1.8V ADC	72.6dBFS @10MHz input 68.8dBFS @305MHz input	85.0dBc @10MHz input 70.0dBc @305MHz input	1.25W	Serial-LVDS	BGA196	
BL1065	8 Channel 16bit 125 MS/s 1.8V ADC	78.6dBFS @10MHz input 72.8dBFS @305MHz input	90.0dBc @10MHz input 75.0dBc @305MHz input	1.25W	Serial-LVDS	BGA196	
BL1081	8 Channel 16 bits 100KS/s Simultaneous Sampling Data Acquisition System	88.0dBFS @1KHz input	105dBFS @1KHz input	150mW	SPI/Parallel	LQFP64	AD7606

ADC/DAC 数据转换器

Part No.	Features	SNR	SFDR	Power	Interface	Package	Reference
BL1082	8 Channel 16-bit 200KS/s Simultaneous Sampling Data Acquisition System	87.0dBFS @1KHz input	105dBFS @1KHz input	165mW	SPI/Parallel	LQFP64	AD7606
BL1083	8 Channel 16-bit 200KS/s Simultaneous Sampling Data Acquisition System, CRC	87.0dBFS @1KHz input	105dBFS @1KHz input	165mW	SPI/Parallel	LQFP64	AD7606B
BL1086	4 Channel 16-bit 320KS/s Simultaneous Sampling Data Acquisition System	87.0dBFS @1KHz input	105dBFS @1KHz input	128mW	SPI/Parallel	LQFP64	AD7606-4
BL1087	8 Channel 16-bit 500KS/s Data Acquisition System	87.0dBFS @1KHz input	103dBFS @1KHz input	90mW	SPI	TSSOP38	ADS8688
BL1088	16 Channel 16-bit 1MS/s Simultaneous Sampling Data Acquisition System	88.0dBFS @1KHz input	103dBFS @1KHz input	300mW	SPI/ Parallel With CRC	LQFP80	AD7616
BL1080	18-bit 2MS/s SAR ADC	95.0dBFS @1KHz input	110dBFS @1KHz input	30mW	SPI/Parallel	QFN48	ADS8472
BL1022	12-bit 1Msps 16-bit Channel ADC	71.70dBFS @100KHz input	84dBFS @100KHz input	14.5mW	SPI	TSSOP38	
BL1031	2 Channel 16-bit 250MS/s DAC	-160dBm/Hz NSD	80dBc @20MHz output	400mW	CMOS	QFN72	
BL1032	16-bit, Voltage Output DAC, R String With Unipolar/Bipolar Operation	85dBFS @1KHz input	86dBFS @1KHz input	0.6mW	SPI	QFN14 SOP14 SOP8	DAC8831
BL1033	16-bit, Voltage Output DAC, R String	84dBFS @1KHz input	86dBFS @1KHz input	0.6mW	SPI	VSSOP8	DAC8551
BL1070	16-bit 2MS/s SAR ADC	93.3dBFS @1KHz input	111dBFS @1KHz input	30mW	SPI/Parallel	QFN48	ADS8472
BL1090	4 Channel 16-bit 860spS Delta-Sigma ADC	-	-	1.25mW	SPI/I ² C	MSOP10	ADS1115

Voltage References 电压基准源

Part No.	Features	Output	Input	Temp Range	Temperature Drift	Initial Accuracy	Noise	Package
BLR112	High Precision Voltage Reference	1.25V	12V Max.	-40°C ~125°C	5ppm Typical 8ppm Max.	0.05%	4μVpp	SOIC8
BLR120	High Precision Voltage Reference	2.048V	12V Max.	-40°C ~125°C	5ppm Typical 10ppm Max.	0.05%	16μVpp	SOIC8
BLR125	High Precision Voltage Reference	2.5V	12V Max.	-40°C ~125°C	5ppm Typical 10ppm Max.	0.05%	20μVpp	SOIC8
BLR133	High Precision Voltage Reference	3.3V	12V Max.	-40°C ~125°C	5ppm Typical 10ppm Max.	0.05%	24μVpp	SOIC8
BLR140	High Precision Voltage Reference	4.096V	12V Max.	-40°C ~125°C	5ppm Typical 10ppm Max.	0.05%	30μVpp	SOIC8
BLR150	High Precision Voltage Reference	5.0V	12V Max.	-40°C ~125°C	5ppm Typical 10ppm Max.	0.05%	37μVpp	SOIC8
BLR220	High Precision Voltage Reference	2.048V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	16μVpp	SOIC8
BLR225	High Precision Voltage Reference	2.5V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	18μVpp	SOIC8
BLR230	High Precision Voltage Reference	3.0V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	22μVpp	SOIC8
BLR233	High Precision Voltage Reference	3.3V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	25μVpp	SOIC8
BLR240	High Precision Voltage Reference	4.096V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	29μVpp	SOIC8
BLR250	High Precision Voltage Reference	5.0V	5.5V Max.	-40°C ~125°C	3ppm Typical 8ppm Max.	0.02%	35μVpp	SOIC8

Measurement IC Of IOT 物联网计量芯片

Part No.	Measurement	Power Consumption	ADC Channels	Output	Clock	VDD	Calibration Free	Package	Application
BL0937B	Multifunction (Active, I, V, P.)	6mW	2	Pulse	Internal	3.3V	×	SOP8	智能插座
BL0939	Multifunction (Active, I, V, P.)	10mW	3	SPI/UART	Internal	3.3V	√	SOP16 SSOP20	充电桩
BL0940	Multifunction (Active, I, V, P.)	8mW	2	SPI/UART	Internal	3.3V	√	TSSOP14	智能照明 工业级计量模块
BL0942	Multifunction (Active, I, V, P, Freq.)	10mW	2	SPI/UART	Internal	3.3V	√	SSOP10 TSSOP14 SOP8	智能插座 充电桩 户外储能
BL0910	1U10I Or 3U6I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) / DC 2000:1	30mW	11	SPI/UART	Internal	3.3V	AC:√ DC:×	LQFP48	多路交直流计量
BL0906	1U6I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) / DC 2000:1	22mW	7	SPI/UART	Internal	3.3V	AC:√ DC:×	LQFP32	多路交直流计量
BL6552	3U4I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I)	22mW	7	SPI/UART	3.58MHz	3.3V		QFN36	三相导轨表 充电桩
BL0971	1U1I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) DC 2000:1	15mW	2	SPI/UART	Internal	3.3V	AC:√ DC:×	QFN20	直流充电桩
BL0972	1U1I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) DC 2000:1	10mW	2	SPI	Internal	3.3V	AC:√ DC:×	TSSOP20	直流充电桩
BL0973	1U2I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) / DC 2000:1	10mW	3	SPI/UART	Internal	3.3V	AC:√ DC:×	TSSOP28	双路交直流信号 监控与采集

Energy Measurement ASIC 电能计量专用电路

Part No.	Measurement	Power Consumption	ADC Channels	Output	Clock	VDD	Calibration Free	Package	Application
BL0921	Active	20mW	3	Pulse	Internal	5.0V	×	SOP16	单相防窃电能表
BL6502	Active	15mW	3	Pulse	3.58MHz	5.0V	×	SSOP24	单相防窃电能表
BL0930E	Active 3000:1	15mW	2	Pulse	Internal	5.0V	×	SOP16	单相有功电能表
BL0930F	Active 3000:1	10mW	2	Pulse	Internal	3.3V	×	SOP16	单相导轨表 支持自动化校表
BL6503S	Active	15mW	2	Pulse	3.58MHz	5.0V	×	SSOP24	单相有功电能表
BL6513C	Active 3000:1	25mW	6	Pulse	3.58MHz	5.0V	×	SOP24	三相有功电能表
BL6523GX	PF, V, P, Multifunction (Active 6000:1, I, Freq.), S	25mW	3	UART/Pulse	3.58MHz	5.0V	×	SOP16	单相多功能

SOC 高精度直流计量系统级芯片

Part No.	CPU	VDD	Flash	RAM	Measurement Features	LCD Driver	GPIO	RTC	Crystal (Hz)	Encrypt	I ² C	SPI	UART	7816	Package
BL66A0242	ARM-M0	2.4~5.5V	256KB	32KB	3×Σ-Δ	4COM×22SEG 6COM×20SEG 8COM×18SEG	42	√	32.768K	AES 256/ 192/128	1	1	4	2	LQFP64 (7x7)

LCD Display Driver 液晶显示驱动芯片

Part No.	Features	IDD (Power Saving)	IDD (Normal Mode)	Interface	Supple Voltage	Package	Reference
BL55066B	4 x 24 SEG	9μA@3.3V	25μA@5V	Two-wire Serial	2.5~5.5V	LQFP44	PCF8566
BL55073	4 x 19 SEG	7.5μA@3.3V	10μA@5V	Two-wire Serial	2.5~5.5V	TSSOP28	
BL55072A	4 x 36 SEG	7.5μA@3.3V	10μA@5V	Two-wire Serial	2.5~5.5V	TSSOP48	BU9792
BL55077	4 x 40 SEG	9μA@3.3V	25μA@5V	Two-wire Serial	2.5~5.5V	LQFP64	PCF8576
BL55080	8 x 35 SEG	8μA@3.3V	10μA@5V	Two-wire Serial	2.5~5.5V	TSSOP48 LQFP48	BU97950
BL55088	8 x 38 SEG 6 x 38 SEG	9μA@3.3V	12μA@5V	Two-wire Serial	2.5~5.5V	LQFP52	

LED Screen Driver (LED 显示驱动) ME 系列

Part No.	MODE	LED Number	VIN	IOUT	Refresh Frequency	Package
ME7400	恒压阵列	16×8	4.5~5.5V	≈400mA(Red Led)	250Hz	LQFP10×10-44L
ME7400A	恒压阵列	16×8	4.5~5.5V	≈400mA(Red Led)	250Hz	SOP32
ME7400B	恒压阵列	14×8	4.5~5.5V	≈400mA(Red Led)	250Hz	SOP32
ME7400C	恒压阵列	15×8	4.5~5.5V	≈400mA(Red Led)	250Hz	SOP32
ME7400D	恒压阵列	12×8	4.5~5.5V	≈400mA(Red Led)	250Hz	SOP32
ME7300	恒流阵列	8×16	4.5~5.5V	1A	100~800Hz	SOP28 EQSOP28

Three-terminal Positive Regulator 双极型三端稳压器

Part No.	Features	VIN	VOUT	Accu.	IQ	IOUT (Max.)	Package	Application
BL78L05D	Three-terminal Positive Voltage Regulator	Max. 42V	5.0V	±2%	2mA	100mA	SOT89-3 SOP8 TO92	家电, 电表
BL78L05G	Three-terminal Positive Voltage Regulator	Max. 42V	5.0V	±2%	2mA	100mA	SOT89-3	工业级 (125°C)
BL78L05Q	Three-terminal Positive Voltage Regulator	Max. 42V	5.0V	±2%	2mA	100mA	SOT89-3 SOP8 TO92	车规级
BL78L53	Three-terminal Positive Voltage Regulator	Withstand Voltage 42V	5.3V	±2%	2mA	100mA	SOT89-3	电表
BL317B	High Current Adjustable Voltage Regulator	Max. 40V	ADJ	±4%	46µA	1.5A	TO220 TO252 TO263	STB
ME78L05	Bipolar, High Speed	Max. 30V	5.0V	±5%	3.5mA	500mA	SOT89-3	
ME78M05	Bipolar, High Speed	Max. 35V	5.0V	±5%	3.5mA	500mA	TO252	
ME7805	Bipolar, High Speed	Max. 35V	5.0V	±5%	3.5mA	1.2A	TO220	
MEB78L05	Bipolar, High Accuracy, High Speed	Max. 36V	5.0V	±1%	3mA	100mA	SOT89-3 TO92	
MEB78M05	Bipolar, High Accuracy, High Speed	Max. 40V	5.0V	±1%	3mA	500mA	TO252	

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
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

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

Part No.	Features	VIN	VOUT	Accu.	PSRR	IQ	I _{OUT} (Max.)	Package	Application
BL8077	Low Power Consumption, Low Dropout Voltage	1.8~5.5V	1.2,1.8,2.5 2.8,3.0,3.3V	±2%	-	0.8μA	300mA	SOT23-5 DFN1x1-4L	电表
BL9162	Low Noise, High PSRR, Fast Response ,Output Discharge	1.6~5.5V	1.0~4.0V	±2%	87dB@217Hz	45μA	300mA	SOT23-5 SC70-5 DFN1X1-4L	物联表 / 导轨表
BL9165	Low Noise, High PSRR, Fast Response ,Output Discharge	1.8~5.5V	1.0~4.0V	±2%	87dB@217Hz	45μA	500mA	SOT23-5 SC70-5 DFN1X1-4L	物联表 / 导轨表
BL9110	1A Very Low Dropout, Low Noise, High PSRR	2.5~6.0V	1.0~5.0V	±2%/±1%	70dB@100Hz	70μA	1A	SOT223-3 TO252-3	出口表
ME6226	Low Power Consumption, High speed, High Accuracy, Low Dropout Voltage	Max.6.5V	1.0~3.6V	±1%	40dB@1KHz	0.6μA	300mA	SOT23-5	
ME6232	Low Power Consumption, High PSRR, High Accuracy, Low Dropout Voltage	Max.6.5V	1.5~5.0V	±1%	65dB@1KHz	1.4μA	400mA	SOT23-3 SOT89-3 SOT23-5	
BL8072	Low Noise, Low Dropout, High PSRR	Max. 18V	1.2~5.0V	±2%	70dB@100Hz	3μA	2A	SOT223 TO252	电表 / 水气表
BL8062	Low Power Consumption, Low Dropout Voltage	Max. 16V	1.2~5.0V	±2%	-	3μA	250mA	SOT23-3 SOT89-3	单相表
BL8075	Low Power Consumption, Low Dropout Voltage	3.0~16V	1.2~5.0V	±2%	-	10μA	500mA	SOT23-5 SOT89-3	电表
ME6231	18V Input 500mA Low Power Consumption LDO	Max. 18V	1.8~5.0V	±1%	-	1.8μA	250mA	SOT23-3 SOT23-5 SOT89-3 DFN1.2x1.6-4L	出口表
ME6209	Low Power Consumption, High Accuracy, Low Dropout Voltage	Max. 18V	3.0~5.0V	±1%/±2%	50dB@1KHz	3μA	250mA	TO92 SOT23-3 SOT89-3	
ME6262	High PSRR, High Accuracy, Low Dropout Voltage	2.7~18V	1.2~5.5V (ADJ)	±1%	80dB@1KHz	80μA	1A	ESOP8	出口表
ME6268	Low Power Consumption, High PSRR, High Accuracy	Max. 30V	1.2~12V	±1%	65dB@1KHz	3μA	250mA	SOT23-3 SOT89-3	
BL9153/9152	Low Dropout 0.3V@100mA	4.75~40V	3.3, 5.0V	±2%	45db@100Hz	6μA	500mA	SOT89-3	电表
ME6261	60V Input 100mA Low Power Consumption LDO	Max. 60V	1.8~5.0V	±1%	70dB@100Hz	2.5μA	100mA	SOT23-3 SOT89-3	单相表

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
BL8531	PFM	0.8~5.5V	2.5~6.0V 100mV Step	4µA	450KHz	85%	±2%	Internal MOSFET	0.3A	SOT89-3 SOT23-3 SOT23-5
BL8531C	PFM	0.8~5.5V	2.5~6.0V 100mV Step	6µA	400KHz	90%	±2%	External MOSFET	-	SOT23-5
BL8536	Sync Boost PWM	0.9~5.0V	1.8~3.6V	8µA	1MHz	94%	±2%	Internal Sync Rectifier	0.3A	SOT89-3 SOT23-3
BLL3310	Async Boost PWM/PFM	2.5~5.5V	Max. 30V	0.2mA	1.2MHz	90%	±2%	Internal MOSFET	-	SOT23-6
BL8042D	Async Boost PWM/PFM	2.5~24V	Max. 28V	0.25mA	1.2MHz	96%	±2%	Internal MOSFET	2A	SOT23-6
BLL3330	Async Boost PWM/PFM	6.0~28V	Max. 80V	0.32mA	120KHz	-	±2%	Internal MOSFET	-	ESOP8
ME2149	Async Boost PWM/PFM	0.9~6.0V	Max. 6.5V	25µA	1MHz	90%	±2%	Internal MOSFET	1~2A	SOT23-5 SOT89-5 SOP8
ME2177	PFM	2.7~12V	4.5~12.6V	4µA	2MHz	89%	±2%	Internal MOSFET	2A 3.3V→9V	QFN11
ME2188	PFM	0.9~5.5V	1.9~5.0V	-	320KHz	-	±2%	Built-in NMOS&PMOS	450mA	SOT89-3 SOT23 SOT23-3 SOT23-5 TO92

Load Switch 精密限流负载开关

Part No.	Features	VIN	IQ	Current Limit Threshold	Power Switch On Resistance	IOC Accuracy	Package
BL2554	Adjustable USB Load Current Switch	2.6~5.5V	150µA	Max. 1.3A	250mΩ		SOT23-5 SOT23-6
BL2556	5V USB High Side Current Limited Load Switch	2.7~5.5V	50µA	2.0A	70mΩ		SOT23-5
ME1501	EN 低有效	2.7~5.5V	50µA	2.1A	70mΩ	±15%	SOT23-5 SOT23-3
ME1502	EN 高 / 低有效	2.7~5.5V	50µA	Adjustable	70mΩ	±15%	SOT23-5 SOT23-6

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

Part No.	Power Switching	MODE	VIN	VOUT	IQ	FOSC	Eff.	Accu.	IOUT	Package	Application	Reference
ME3121	Built-in MOSFET, Synchronous	PWM/PFM	4.5~40V	ADJ	0.2mA	1.6MHz	95%	±2%	0.6A	SOT23-6	PLC	
BL9342	Built-in MOSFET	PWM/PFM	4.5~40V	ADJ	0.2mA	1.8MHz	95%	±2%	0.6A	SOT23-6	Meter	MP2451
BL9352A	Built-in MOSFET	PWM/PFM	4.5~45V	ADJ	0.6mA	1.8MHz	95%	±2%	0.6A	SOT23-6	Meter	MP2451
ME3166	Built-in MOSFET, Synchronous	PWM/PFM	4.6~60V	ADJ	0.2mA	1.6MHz	93%	±2%	0.8A	SOT23-6	Meter	
BL9362	Built-in MOSFET	PWM/PFM	4.5~60V	ADJ	0.65mA	2MHz	95%	±2%	0.6A	SOT23-6	Meter/BMS	LM2842
BL9366	Built-in MOSFET	PWM/PFM	4.5~60V	ADJ	0.7mA	480KHz	90%	±2%	0.6A	SOT23-6	Meter/BMS	MP2459

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

Part No.	Power Switching	MODE	VIN	VOUT	IQ	FOSC	Eff.	Max. Duty Cycle	Accu.	IOUT	Package	Application	Reference
BLL2206	Built-in MOSFET Synchronous	PWM/PFM	2.3~5.5V	ADJ(Vfb=0.5V)	25µA	4MHz	96%	100%	±1%	6A	SOT23-6	Low-voltage high-density power system, IOT	
BL8028	Built-in MOSFET Synchronous	PWM/PFM	2.6~5.5V	ADJ(Vfb=0.6V)	80µA	2MHz	97%	100%	±2%	1.5A	SOT23-6	Cell phone, STB, Portable device	SY8008, RT8008, RT8024
BL8038	Built-in MOSFET Synchronous	PWM/PFM	2.6~5.5V	ADJ(Vfb=0.6V)	55µA	2MHz	97%	100%	±2%	1A	SOT23-6	Cell phone, STB, Portable device	
BL8039	Built-in MOSFET Synchronous	PWM/PFM	2.6~5.5V	ADJ(Vfb=0.6V)	80µA	2MHz	97%	100%	±2%	2A	SOT23-6	Cell phone, STB, Portable device	
BL9315	Built-in MOSFET Synchronous	PWM/PFM	2.6~5.5V	ADJ	50µA	1.4MHz	97%	-	±2.5%	3A	SOT23-6	TV, STB	PAM2320
BL8033	Built-in MOSFET Synchronous	PWM/PFM	4.5~16V	ADJ(Vfb=0.8V)	0.5mA	500KHz	96%	92%	±2%	3A	SOT23-6	DPS, STB	MP1471
BL8034	Built-in MOSFET Synchronous	PWM/PFM	4.2~16V	ADJ(Vfb=0.923V)	0.5mA	500KHz	95%	92%	±2%	4A	SOT23-6	TV, FPGA Power Supply, LED Driver	MP1484
BLL2452S	Built-in MOSFET Synchronous	COT	4.2~16V	ADJ(Vfb=0.8V)	150µA	500KHz	94%	80%	±2%	2.5A	SOT23-6	DPS, STB	
BLL2453	Built-in MOSFET Synchronous	COT	4.2~16V	ADJ(Vfb=0.8V)	150µA	500KHz	95%	80%	±2%	3A	SOT23-6	DPS, STB	

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

Part No.	Power Switching	MODE	VIN	VOUT	IQ	FOSC	Eff.	Max. Duty Cycle	Accu.	IOUT	Package	Application	Reference
BL8032G	Built-in MOSFET Synchronous	PWM/PFM	4.5~18V	ADJ (Vfb=0.8V)	0.5mA	500KHz	96%	92%	±2%	2A	SOT23-6	DPS, STB	MP1470
BL8037	Built-in MOSFET Synchronous	PWM/PFM	4.2~28V	ADJ (Vfb=0.8V)	150µA	500KHz	94%	93%	±2%	2A	ESOP8	DPS, STB	
BL8036	Built-in MOSFET Synchronous	PWM/PFM	4.2~28V	ADJ (Vfb=0.8V)	150µA	500KHz	94%	93%	±2%	3A	ESOP8 SOT23-6	DPS, STB	
BLL2620	Built-in MOSFET Synchronous	PWM/PFM	5.0~28V	ADJ (Vfb=0.8V)	250µA	150KHz~ADJ	97%	80%	±2%	5A	QFN4x4-14L	DPS, Wireless Charger	

AC/DC Converter AC/DC 转换器

Part No.	Pout (Max.)	Drive Device	BVDSS	MODE	Standby Power	OVP	Package	Application	Reference
BL8802B	10W	MOSFET	1000V	PSR	<75mW	Y	DIP7	三相表	
BL8812B	10W	MOSFET	650V	PSR	<75mW	Y	SOP7	断路器, 燃气表	OB2500
BL8851	60W	External MOSFET		SSR	<0.15W	Y	SOT23-6		OB2273
ME8624	4W	External MOSFET	600V	Buck	500µA	Y	SOP8	导轨表, 数显表	
ME8230	8W	Internal MOSFET	1000V	SSR	≤30mW	Y	DIP7	单相 / 三相电表	DM8234T
ME8325C	12W	Internal MOSFET	1000V	PSR	<60mW	Y	DIP7	单相 / 三相电表	
ME8114	12W	Internal MOSFET	1000V	SSR	<100mW	Y	DIP7	单相 / 三相电表	

Voltage Detector/Reset 电压检测 / 复位芯片

Part No.	VIN	VDET	IQ	Accu.	Output Type	Package	Delay Time	Application
BL8506	0.7~10V	0.9~6.0V (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
BL8518	6.0V	2.63V, 2.93V	4.5μA	±3%	CMOS Or NCh	SOT23	200ms	便携式电池电压检测,Power Good, 上电掉电复位 Failure 检测
ME2807 ME2808	1.5~18V	2.0~7.0V (Step 0.1V)	1.8μA	±1%	CMOS Or Nch	SOT23-3 SOT23 TO92	N/A	便携式电池电压检测,Power Good, Failure 检测
ME2815 ME2816	0.7~6.0V	1.0~5.0V (Step 0.1V)	0.5μA	±1%	CMOS Or Nch	SOT23-5	ADJ	便携式电池电压检测,Power Good, Failure 检测
ME2805 ME2806	0.7~7.0V	1.0~6.5V (Step 0.1V)	0.9μA	±1%	CMOS Or Nch	SOT23 SOT23-3 SOT23-5 DFN1.2x1.6-4L DFN2x2-6L	20ms 50ms	便携式电池电压检测,Power Good, Failure 检测

Low Noise Operational Amplifiers 低噪声运算放大器

Part No.	Channel	Noise@1KHz Typ(nV/V Hz)	Power Supply (V)	GBW(MHz)	Slew Rate(V/μs)	Iq/CH (μA)	Input Bias Current (pA)	Vos(mV) Type	Rail to Rail Input /Output	Package	Reference
BL3701	1	6.5	2.1~5.5	12	11	1100	1	0.25	Y	SOT23-5	SGM721,TP2411
BL3702	2	6.5	2.1~5.5	12	11	1100	1	0.25	Y	SOP8 MSOP8	SGM722,TP2412
BL3704	4	6.5	2.1~5.5	12	11	1100	1	0.25	Y	SOP14 TSSOP14	SGM724,TP2414
BL3711	1	6.5	2.1~5.5	6	4	550	1	0.25	Y	SOT23-5	SGM8621,TLV2771
BL3712	2	6.5	2.1~5.5	6	4	550	1	0.25	Y	SOP8 MSOP8	SGM8622,TLV2772
BL3714	4	6.5	2.1~5.5	6	4	550	1	0.25	Y	SOP14 TSSOP14	SGM8624,TLV2774

Nano-Power Operational Amplifiers 纳安级运算放大器

Part No.	Channel	Iq/CH(nA)	Power Supply	GBW(KHz)	Slew Rate (V/ms)	Maximum Vos(mV)	Input Bias Current(pA)	$\Delta VOS/\Delta T (\mu V/^{\circ}C)$	Rail to Rail Input /Output	Package	Reference
BL3601	1	550	1.4~5.5	10	3	2	1	2.5	Y	SOT23-5	TLV8541,SGM8041
BL3602	2	550	1.4~5.5	10	3	2	1	2.5	Y	SOP8 MSOP8 DFN8(2x2)	TLV8542,SGM8042
BL3604	4	550	1.4~5.5	10	3	2	1	2.5	Y	SOP14 TSSOP14	TLV8544,SGM8044

Precision Operational Amplifiers 高精度运算放大器

Part No.	Channel	Noise@1KHz Typ. (nV/Hz)	Power Supply (V)	GBW (MHz)	Slew Rate (V/ μ s)	Iq/CH (μ A)	Input Bias Current (pA)	Maximum Vos (μ V)	Rail To Rail Input/Output	Package
BL3891	1	30	1.8~5.5	1.8	0.95	180	20	38	Y	SOT23-5
BL3894	4	30	1.8~5.5	1.8	0.95	180	20	38	Y	SOP14 TSSOP14

Current Sense Amplifier 电流检测放大器

Part No.	Channel	Vos(μ V) Typ	Power Supply (V)	Common Mode Voltage (V)	Slew Rate (V/ μ s)	Iq (μ A) Typ	Ib (μ A) Typ	Vos TC (μ V/ $^{\circ}$ C) Typ	Gain Drift (ppm/ $^{\circ}$ C, Typ)	Package
BL38199	1	5	2.7~30	-0.3~36	0.6	65	28	0.1	3	SC70-6

Analog Switch 模拟开关

Part No.	CH	TYP	Features	VDD	Package	Application	Reference
BL1551B	1	1:2	2.7Ω 350MHz Bandwidth SPDT Analog Switch	1.8~5.5V	SC70-6	Mobile Phone.ect	FSA3157 NLASB3157
BL1555	2	1:2	0.3Ω 33MHz Bandwidth Dual SPDT Analog Switch	1.65~5.5V	MSOP10 QFN1.8×1.4-10L	Mobile Phone.ect	SGM3005 SGM5223
BL1530	2	1:2	High Speed USB 2.0(480Mbps) Analog Switch	2.3~5.0V	TQFN10 MSOP10	Mobile Phone.ect	SGM7222 FSUSB30
BL1532	2	1:2	High Speed USB 2.0(480Mbps) Analog Switch	2.3~5.0V	TQFN10 MSOP10	Mobile Phone.ect	SGM7227 FSUSB42
BL1557	2	1:2	3.5Ω 400MHz Bandwidth Dual SPDT Analog Switch	1.8~5.5V	QFN1.8×1.4-10L	Mobile Phone.ect	SGM4717EP
BL1558	4	1:2	4Ω High Speed Low Voltage Quad SPDT Analog Switch	1.8~5.5V	QFN3×3-16L	Audio.ect	
BL1559	4	1:2	3.5Ω High Speed Low Voltage Quad SPDT Analog Switch	1.8~5.5V	QFN3×3-16L	Audio.ect	SGM44599
BL1561	1	1:1	3.5Ω Single Bilateral SPST Analog Switch	1.8~5.5V	SC70-5	Wearable Devices.ect	SN74LVC1G66
BL1521	1	1:8	8-Channel Analog Multiplexer and Demultiplexer	2.5~5.5V	SOP16	Audio.ect	SGM48751
BL1522	2	1:4	Dual 4-Channel Analog Multiplexer/Demultiplexer	2.5~5.5V	SOP16	Audio.ect	SGM48752

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@3.6V	Open Drain	Yes	Two-wire Serial	1.8~5.5V	1.8~5.5V	SOP8 TSSOP8	5C372
BLX8563	1Signal/4 Source	484μS to 1 Week	400nA@3.3V	Open Drain	No	I ² C	0.9~5.5V	1.1~5.5V	SOP8 TSSOP8 MSOP8 UDFN8	8563
BLX85063	1Signal/5 Source	484μS to 1 Week	400nA@3.3V	Open Drain	Yes	I ² C	0.9~5.5V	1.2~5.5V	SOP8 TSSOP8 MSOP8 UDFN8 DFN25x25-10L	85063

Isolator 数字隔离器

Part No.	VDD	Data Rate	Channel	Forward/Reverse	Viso	Default Output	Integrated Power/Interlock	Package	Application
BL7120AL	2.35~5.5V	100Mbps	2	2/0	3750Vrms	L	No/No	SOP8	接口、多路信号隔离
BL7120AH	2.35~5.5V	100Mbps	2	2/0	3750Vrms	H	No/No	SOP8	接口、多路信号隔离
BL7121AL	2.35~5.5V	100Mbps	2	1/1	3750Vrms	L	No/No	SOP8	接口、多路信号隔离
BL7121AH	2.35~5.5V	100Mbps	2	1/1	3750Vrms	H	No/No	SOP8	接口、多路信号隔离
BL7122AL	2.35~5.5V	100Mbps	2	1/1	3750Vrms	L	No/No	SOP8	接口、多路信号隔离
BL7122AH	2.35~5.5V	100Mbps	2	1/1	3750Vrms	H	No/No	SOP8	接口、多路信号隔离
BL7120BL	2.35~5.5V	100Mbps	2	2/0	5000Vrms	L	No/No	SOW8	接口、多路信号隔离
BL7120BH	2.35~5.5V	100Mbps	2	2/0	5000Vrms	H	No/No	SOW8	接口、多路信号隔离
BL7121BL	2.35~5.5V	100Mbps	2	1/1	5000Vrms	L	No/No	SOW8	接口、多路信号隔离
BL7121BH	2.35~5.5V	100Mbps	2	1/1	5000Vrms	H	No/No	SOW8	接口、多路信号隔离
BL7122BL	2.35~5.5V	100Mbps	2	1/1	5000Vrms	L	No/No	SOW8	接口、多路信号隔离
BL7122BH	2.35~5.5V	100Mbps	2	1/1	5000Vrms	H	No/No	SOW8	接口、多路信号隔离
BL7140WL	2.35~5.5V	100Mbps	4	4/0	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7140WH	2.35~5.5V	100Mbps	4	4/0	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7141WL	2.35~5.5V	100Mbps	4	3/1	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7141WH	2.35~5.5V	100Mbps	4	3/1	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7142WL	2.35~5.5V	100Mbps	4	2/2	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7142WH	2.35~5.5V	100Mbps	4	2/2	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7140SL	2.35~5.5V	100Mbps	4	4/0	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7140SH	2.35~5.5V	100Mbps	4	4/0	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7141SL	2.35~5.5V	100Mbps	4	3/1	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7141SH	2.35~5.5V	100Mbps	4	3/1	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离

Isolator 数字隔离器

Part No.	VDD	Data Rate	Channel	Forward/Reverse	Viso	Default Output	Integrated Power/Interlock	Package	Application
BL7142SL	2.35~5.5V	100Mbps	4	2/2	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7142SH	2.35~5.5V	100Mbps	4	2/2	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7160WL	2.35~5.5V	100Mbps	6	6/0	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7160WH	2.35~5.5V	100Mbps	6	6/0	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7161WL	2.35~5.5V	100Mbps	6	5/1	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7161WH	2.35~5.5V	100Mbps	6	5/1	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7162WL	2.35~5.5V	100Mbps	6	4/2	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7162WH	2.35~5.5V	100Mbps	6	4/2	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7163WL	2.35~5.5V	100Mbps	6	3/3	5000Vrms	L	No/No	SOW16	接口、多路信号隔离
BL7163WH	2.35~5.5V	100Mbps	6	3/3	5000Vrms	H	No/No	SOW16	接口、多路信号隔离
BL7166WL	2.35~5.5V	100Mbps	6	6/0	5000Vrms	L	No/Yes	SOW16	多路信号隔离、电机驱动
BL7160SL	2.35~5.5V	100Mbps	6	6/0	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7160SH	2.35~5.5V	100Mbps	6	6/0	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7161SL	2.35~5.5V	100Mbps	6	5/1	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7161SH	2.35~5.5V	100Mbps	6	5/1	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7162SL	2.35~5.5V	100Mbps	6	4/2	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7162SH	2.35~5.5V	100Mbps	6	4/2	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7163SL	2.35~5.5V	100Mbps	6	3/3	3750Vrms	L	No/No	SSOP16	接口、多路信号隔离
BL7163SH	2.35~5.5V	100Mbps	6	3/3	3750Vrms	H	No/No	SSOP16	接口、多路信号隔离
BL7166SL	2.35~5.5V	100Mbps	6	6/0	3750Vrms	L	No/Yes	SSOP16	多路信号隔离、电机驱动

Meter MOSFET Selection Guide 电表用 MOSFET 选型表

Part No.	Package	V_{DSS} (V)	I_D (A)	$R_{DS(ON)}$ (Ω)		V_{th} (V)			ESD
		Min.		Typ.	Max.	Min.	Typ.	Max.	
BL4N80	TO220 TO220F TO251 TO252	800	4.0	2.3	2.8	3.0	3.5	4.0	N
BL4N80A	TO220 TO220F TO251 TO252	800	3.5	3.6	4.3	2.8	-	4.2	Y
BL3N90	TO220 TO220F TO251 TO252	900	3.0	4.0	4.8	3.0	3.5	4.0	N
BL3N90E	TO220 TO220F TO251 TO252	900	3.0	4.2	5.0	3.0	3.5	4.0	Y
BL4N90	TO220 TO220F TO251 TO252	900	4.0	2.6	3.0	3.0	3.5	4.0	N
BL2N100	TO220 TO220F TO251 TO252	1000	2.0	5.6	6.8	3.0	3.5	4.0	N
BL3N100E	TO220 TO220F TO251 TO252	1000	2.5	5.6	6.8	3.0	3.5	4.0	Y
BL3N100	TO220 TO220F TO251 TO252	1000	3.0	3.5	4.2	3.0	3.5	4.0	N
BL3N120	TO220 TO220F TO251 TO252	1200	3.0	5.0	6.0	3.0	4.0	5.0	N
BL6N120	TO220 TO220F TO3PN TO3PF	1200	6.0	2.6	3.2	3.0	4.0	5.0	N
BL5N135	TO220 TO220F TO3PN TO3PF	1350	5.0	3.0	3.6	3.0	4.0	5.0	N
BL3N150	TO220 TO220F TO3PN TO3PF	1500	3.0	5.8	8.0	3.0	4.0	5.0	N
BL4N150	TO220 TO220F TO3PN TO3PF	1500	4.0	4.0	5.0	3.0	4.0	5.0	N

Trench MOSFET (沟槽场效应晶体管)

Part No.	BV(V)	I _D (A)	R _{DS(ON)} (mΩ) @ V _{GS} = 10V		R _{DS(ON)} (mΩ) @ V _{GS} = 4.5V		R _{DS(ON)} (mΩ) @ V _{GS} = 2.5V		V _{TH} (V)			Package
			Typ.	Max.	Typ.	Max.	Typ.	Max.	Min.	Typ.	Max.	
BLM3400	30	5.8	31	41	34	45	45	59	0.7	0.9	1.4	SOT23
BLM2301	-20	-3.0	-	-	46	70	62	100	-0.4	-0.7	-1.0	SOT23
BLM2305	-20	-4.1	-	-	43	52	58	75	-0.45	-0.7	-1.0	SOT23
BLM08P02	-20	-40	6.0	8.0	7.0	9.0	-	-	-0.4	-0.7	-1.0	PDFN3.3×3.3 SOP8
BLM3407	-30	-4.1	46	65	65	95	-	-	-1.0	-1.5	-2.4	SOT23
BLM3401	-30	-4.2	50	55	64	72	95	120	-0.7	-1.0	-1.3	SOT23
BLM4953	-30	-5.1	48	60	73	105	-	-	-1.0	-1.5	-2.4	SOP8(Dual)
BLM9435	-30	-5.1	48	55	73	105	-	-	-1.0	-1.5	-2.4	SOP8
BLM4435	-30	-9.1	15	20	21	35	-	-	-1.0	-1.5	-2.4	SOP8
BLM4407	-30	-20	11.5	15	18	25	-	-	-1.0	-1.5	-2.4	SOP8
BLM12P03	-30	-20	11.5	15	18	25	-	-	-1.0	-1.5	-2.4	PDFN3.3×3.3 TO251
BLM10P03	-30	-24	8.0	10	11	13	-	-	-1.0	-1.5	-2.4	TO252 SOP8 PDFN3.3×3.3 PDFN5x6
BLM40P04	-40	-15	29	35	34	45	-	-	-1.0	-1.5	-2.4	TO252 SOP8 TO251 PDFN3.3×3.3
BLM15P04	-40	-40	11	15	14	20	-	-	-1.0	-1.5	-2.4	TO252

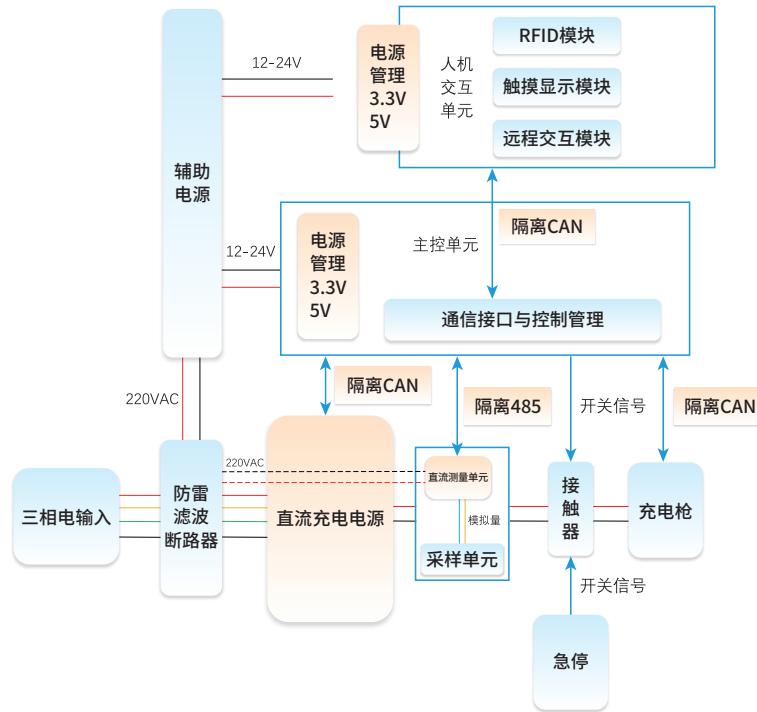
IGBT 绝缘栅双极晶体管

Part No.	BVCES(V)	IC(A)	Package
BLG10T65F	650	10	TO252
BLG15T65F	650	15	TO252 TO220F TO263
BLG20T65F	650	20	TO220 TO220F TO263 TO247
BLG30T65F	650	30	TO220 TO220F TO247 TO3PF
BLG40T65F	650	40	TO3PN TO247 TO3PF
BLG50T65F	650	50	TO3PN TO247 TO3PF
BLQG50T65F	650	50	TO247
BLG60T65F	650	60	TO3PN TO247 TO3PF
BLG75T65F	650	75	TO247
BLG80T65F	650	80	TO247
BLG40T120F	1200	40	TO247
BLQG275T75F	750	275	模块
BLG200T120F	1200	200	模块

汽车充电桩芯片选型参考

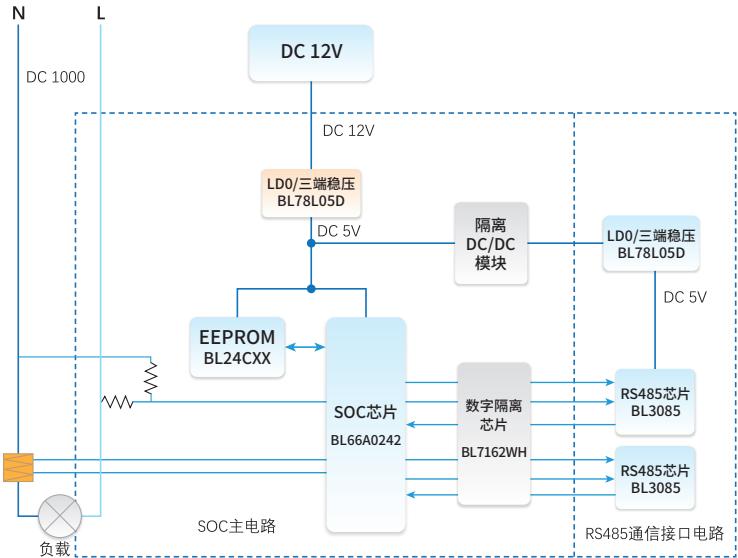
电压管理	型号	备注
电源管理芯片	BL1117	LDO 系列产品
	BL8032/8033/8034	16V 耐压系列 DC-DC
	ME8206/ME8230 ME8114/ME8325C	AC-DC 控制器
通讯接口芯片	BL3085	RS485 接口，最高速率 500Kbps
	BL7385	隔离 485 接口，最高速率 500Kbps
	BL13232E	RS232 接口
数字隔离器芯片	BL712X	2 通道数字隔离器
	BL714X	4 通道数字隔离器
	BL716X	6 通道数字隔离器
物联网计量芯片	BL0971/0972/0973	单路 / 双路直流计量芯片
	BL66A0242	直流计量 SOC(模块)
	BL0939	双路校准交流计量
	BL0942	单路校准交流计量
	BL6552	三相交流计量 (通过 Nmi Certin B.V. 认证，取得 CE-250 证书)
IGBT 芯片	BLG40T65F	650V/40A IGBT
	BLG75T65F	650V/75A IGBT
	BLG80T65F	650V/80A IGBT
高压 MOSFET	BL3N150	1500V/3A MOSFET
	BL4N80	800V/4A MOSFET
	BL9N90	900V/9A MOSFET
存储器	BL24CXXX	2K~2M EEPROM
RTC 芯片	BL5372	时钟芯片
	BLX8563	时钟芯片
驱动芯片	ULN2803	8 通道达林顿管驱动
	ULN2003	7 通道达林顿管驱动
	BL8023K	磁保持继电器驱动
	BL5617	H 桥马达驱动芯片

直流充电桩系统框图



直流电能表选型参考

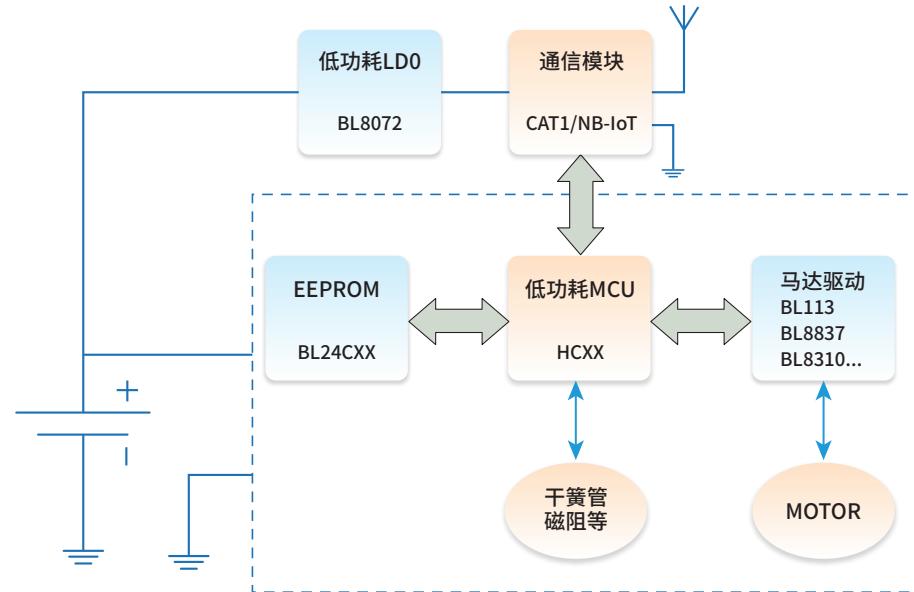
上海贝岭直流电能计量 SOC 芯片，可用于直流电能计量产品开发。如下是采用 BL66A0242 开发的一款直流电表样机示意图，基于该架构可开发带直流计量功能的产品，具有精度高，开发简单等特点。



说明

- (1) 该方案可实现 1-600A 高精度的电流、电压、功率的直流计量；
- (2) 该方案可以支持外部分流器采样和直通式分流器采样两种模式，并且直通式采样外部壳体、分流器已有完整的设计方案；
- (3) 该方案适合于直流电能表、充电桩、计量型断路器等产品，已批量。

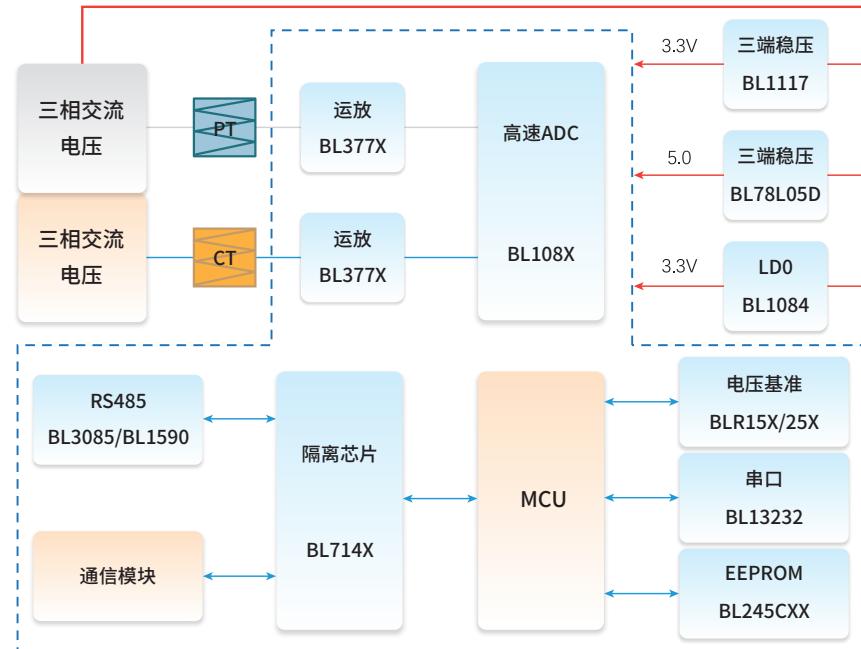
水气表方案选型参考



说明：

■ 为贝岭已有产品，产品规格书均可在上海贝岭官网下载。

配网 FTU 方案选型参考





上海贝岭股份有限公司

SHANGHAI BELLING CORP., LTD.

✉ 上海市徐汇区宜山路810号 (200233)

📞 86-21-24261198 📞 86-21-64852222

🌐 www.belling.com.cn

✉ marketing@belling.com.cn

Copyright © 2024 Shanghai Belling Co., Ltd. All Rights Reserved.

上海贝岭北京分公司

✉ 北京市海淀区知春路68号院领航科技大厦1号楼2层208室

📞 18618426488

上海贝岭深圳分公司

✉ 广东省深圳市南山区科发路3号中电长城大厦南塔11楼

📞 0755-33336776

上海贝岭成都分公司

✉ 四川省成都市高新区天府四街199号长虹科技大厦A座402室

📞 18980098532

上海贝岭西安分公司

✉ 陕西省西安市高新区科技二路启迪科技园T4栋, 1101-1102室

📞 18706893398