

产品目录 2009'Q2



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NEW RELEASED PRODUCTS 新产品

Part No.	Category	Description	Package	Reference	Page
BL1551	Switch	300MHz SPDT Analog Switch	SC70	SGM3157	5
BL1553	Switch	0.6Ω Low Ron 80MHz SPDT Analog Switch	SC70	NLAS4157 PI5A3159	5
BL24C64	EEPROM	64 Kbits Serial EEPROM	DIP8 SOP8 TSSOP8	24C64	8
BL24C128	EEPROM	128 Kbits Serial EEPROM	DIP8 SOP8 TSSOP8	24C128	8
BL24C256	EEPROM	256 Kbits Serial EEPROM	DIP8 SOP8 TSSOP8	24C256	8
BL3406B	Power	1.5MHz 600mA Synchronous Buck Converter	SOT23-5	LTC3406 LTC3406B	3
BL4054	Power	1 cell Li-ion Battery Charger, MAX Charge Current 800mA	SOT23-5 TSOT23-5	LTC4054	2
BL4863	Audio	2.2Wx2 Audio Power Amplifier Plus Stereo Headphone Function	TSSOP20	LM4863	6
BL5965	Smoke	Photoelectric Smoke Detector IC, hush function, continuous alarm. UL Certified.	DIP16 SOP16	A5348	10
BL5966	Smoke	Photoelectric Smoke Detector IC, hush function, temporal alarm. UL Certified.	DIP16 SOP16	A5366	1
BL6100	Audio	20W x 2 Stereo Class D Audio Power Amplifier	QFN48 TQFP48	TPA3008	6
BL6105	Audio	1.4 Watt Mono Filter-Free Class D Audio Power Amplifier	DFN8	TPA2005	6
BL6112	Audio	2.1W x2 Stereo Filter-Free Class D Audio Power Amplifier	WCSP16 QFN20	TPA2012	6
BL6289	Audio	1.15 Watt Audio Power Amplifier	MSOP8	LM4890	6
BL6290	Audio	1.25 Watt Audio Power Amplifier	MSOP8 SOP8	LM4990	6
BL6299	Audio	1.34 Watt High PSRR Audio Power Amplifier	MSOP8 CSP9	NCP2890	6
BL6305	Audio	2.6 Watt Mono Filter-Free Class D Audio Power Amplifier	MSOP8 DFN8 SOP8	TPA2005	6
BL6504	Metering	Single Phase, Two channels measurement with detection of missing neutral	SSOP20	ADE7761	9
BL8516	Power	1.2MHz 1.2A Buck DC-DC Converter	SOP-8	-	3
BL8519	Power	500KHz 2A Buck DC-DC Converter	SOP-8	-	3
BL8552	Power	300mA Low IQ LDO	SOT23-3	XC6206	2
BL8565	Power	400mA Low noise LDO	SOT89-3	-	2
BL8566	Power	300mA Dual Channels LDO	SOT23-6	RT9011 RT9182	2
BL8567	Power	300mA Low noise LDO, MAX Input 12V	SOT23-3 SOT89-3	-	2
BL8581A	Lighting	Linear Constant LED Driver, Support 20mA LED x4	QFN16	KTD108	11
BL8583	Lighting	Linear Constant LED Driver, Support 30mA LED x3	SOP14	-	11
BL8585	Lighting	Linear Constant LED Driver, Support 40mA LED, MAX Input 90V	TO92	CL2	11
BL8586	Lighting	Linear Constant LED Driver, Support 30mA LED x6	SSOP20	2QL9712	11
BL8589	Lighting	Linear Constant LED Driver, Support 30mA LED x3	SSOP24 QFN24	TCA62746	11
BL9193	Power	300mA Ultra-low Noise, Ultra-Fast CMOS LDO Regulator, RF PA LDO	SOT23-5 SC70	RT9193 SGM2007	2
BL9580	Lighting	Output Max 1.4A Step-down high power LED Driver	SOT23-5 SOT89-5	ZXLD1360	11
BLV297	MOSFET	200V 650mA 2Ω N type MOSFET	TO92	BSP297	4

Power Management 电源管理类

Bipolar LDO Linear Regulator (Bipolar 低压差线性稳压器)

Part No.	Features	VIN	VOUT	Accu	IQ	IOUT(Max)	Package
BL1117	Bipolar, Low dropout voltage	Max 18V	1.2,1.8,2.5,3.3,5V&adj	±1%/±1.5%	4mA	1A	SOT223 TO252
BL1085	Bipolar, Low dropout voltage	Max 18V	1.8,2.5,3.3,5V&adj	±2%	4mA	3A	TO252 TO263
BL1084	Bipolar, Low dropout voltage	Max 18V	1.8,2.5,3.3,5V&adj	±2%	5mA	5A	TO252 TO263

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

Part No.	Features	VIN	VOUT	Accu	IQ	IOUT(Max)	Package	Reference
BL8555	Low noise, High PSRR	Max 8V	1.2~5.0V	±2%/±1%	25μA	150mA	SOT23-5 SC70-5	XC6212 XC6209 R1114X LP3985
BL8563	Low noise, High PSRR	Max 6V	1.5V~4.5V	±2%/±1%	20μA	300mA	SOT23-5 SC70-5	XC6219 XC6212 XC6209 R1114X LP3985
BL9193	RF PA LDO, Ultra Low noise, High PSSR	2.5V~6V	1.2V~5V	±2%/±1%	80μA	300mA	SOT23-5 SC70-5	RT9193 SGM2007
BL8558	Low noise, High PSRR	Max 8V	1.2~4.5V	±2%/±1%	75μA	500mA	SOT89-3 SOT23-5	RT9013 RT9017
BL8560	Dual channels LDO	1.5~10V	1.2~5.0V	±2%/±1%	25μA	150mA /Each	SOT23-6	XC6401 R5325
BL8566	Dual channels LDO	Max 6V	1.5V-4.5V	±2%/±1%	20μA	300mA /Each	SOT23-6	RT9011 RT9182
BL8503	Low dropout voltage, Low Iq	1.5~10V	1.2~6.0V	±2%/±1%	3μA	250mA	SOT89-3 SOT23-3 TO92	XC6206
BL8552	Low dropout voltage, Low Iq	Max 8V	1.2V~3.6V	±2%	2μA	300mA	SOT23-3	XC6206
BL8553	Low dropout voltage, Low Iq	2~10V	1.2~5.0V	±2%/±1%	7μA	400mA	SOT89-3 SOT23-3	XC6203
BL8565	Low noise, Low dropout	Max 8V	1.5V~4.5V	±2%	100μA	400mA	SOT89-3	
BL8551	Wide input voltage range, Low Iq	3.5~24V	2.5~12V	±3%	9μA	150mA	TO92 SOT89-3	HT75xx
BL8567	Wide input voltage range, Low noise	Max 12V	2.5V~5V	±2%	8μA	300mA	SOT23-3 SOT89-3	

Li-ion Battery Charger (锂电池充电芯片)

Part No.	Features	VIN	Series Cells	Max Charger	Charger type	Output Accu	Package	Reference
BL8572	USB charger, C/10 charger termination	4.25~6V	1	500mA	Linear	4.2V±1%	SOT23-5	LTC4054
BL4054	Temperature regulation, trickle charge, C/10 charge termination, reverse protection, USB compliant	4.5~10V	1	800mA	Linear	4.2V±1%	SOT23-5 TSOT23-5	LTC4054

Li-ion Battery Charger Control (锂电池充电控制芯片)

Part No.	Features	Constant-voltage	Constant-current	VDD	Package
SMC401	Li-ion Battery Charger	4.2V	450±100mA	2.7~6.5v	DIP16 SOP16

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	Reference
BL8516	Built-in 1.5A NPN	PWM	3.6~20V	ADJ	2mA	1.2MHz	85%	85%	±2%	1.2A	SOP8	
BL8519	Built-in 2A PFET	PWM	3.6~20V	ADJ	2mA	500KHz	>85%	97%	±2%	2A	SOP8	
BL3406B	Internal NMOS and PMOS	PWM /Pulse Skip, Synchronous, Peak Current Mode Control	2.5~5.5V	1.2, 1.8, ADJ	180µA	1.5MHz	96%	100%	±2%	600mA	SOT23-5 TSOT23-5	LTC3406 LTC3406B

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	Reference
BL8505	PFM	0.8~5.5V	2.7~5.0V	40µA	150KHz	87%	±2%	Internal MOSFET	300mA	SOT89-3	
BL8530	PFM	0.8~5.5V	2.5~6.0V 100mV Step	4µA	350KHz	85%	±2%	Internal MOSFET	300mA	SOT89-3 SOT23-3 SOT23-5	XC6371A XC6372A
BL8534	PFM	0.8~5.5V	2.5~6.0V 100mV Step	<20µA	150KHz		±2%	Internal MOSFET	300mA	SOT89-3 SOT23-3 SOT23-5	XC6371A XC6372A
BL8530C	VFM	0.8~5.5V	2.5~6.0V 100mV Step	6µA	350KHz	90%	±2%	External MOSFET	-	SOT23-3 SOT23-5	
BL8545	VFM	2.0~6.0V	24V Max	1µA	3MHz	80%	±2%	Internal 1.5A NPN	100mA @20V	SOT23-6	
BL8532	PFM	0.8~6.0V	6.0V	20µA	350KHz	87%	±2%	Internal MOSFET	300mA @3.2V	SOT89-5	

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	Reference
BL8506	0.7~10V	0.9~6.0V (Step0.1V)	0.5µA	±2%	CMOS or NMOS open drain	SOT23-3 SOT89-3 SOT23-5	N/A	3111 808
BL8509	0.7~10V	0.9~6.0V (Step0.1V)	0.5µA	±2%	CMOS or NMOS open drain	SOT23-3 SOT23-5	Adjustable	3110 809

Shunt Regulator (电压基准)

Part No.	Features	VIN	VREF	Accu.	IOUT	Package
BL431	Adjustable Voltage Reference	Max 18V	2.5V	±0.5%/±1%/±2%	100mA	TO92 SOT23-3

MOSFET 金属氧化物半导体场效应管

Applications: (1)Relay driver, (2)High speed and line transformer drivers, (3)Charger, (4)Switching regulators, (5)Converters, (6)Motor drivers, (7)Low voltage, low current switching, (8)Lighting and ballast driver.

Part No.	Mode	VDS(Max)	ID(Max)	RDS(on)(Max)	Package	Reference	Application
BLV108	N channel	200V	300mA	5Ω	TO92	BS108	(1) (2)
BLV1N60	N channel	600V	1A	8Ω	TO251 TO252	FQB1N60	(1) (3) (4) (5) (6)
BLV1N60A	N channel	600V	0.5A	15Ω	TO92	-	(1) (3) (4) (5) (6)
BLV297	N channel	200V	650mA	2Ω	TO92	BSP297	(1) (2)
BLV2N60	N channel	600V	2.4A	4.4Ω	TO251 TO252 TO220-AB TO220-FP	FQB2N60	(1) (3) (4) (5) (6)
BLV4N60	N channel	600V	4.4A	2.2Ω	TO220-FP TO220-AB	FQB4M60	(1) (3) (4) (5) (6)
BLVP304	P channel	-300V	-170mA	17Ω	TO92	BSP304	(1) (2)
BLV6N60	N channel	600V	6A	1.2Ω	TO220-FP TO220-AB	FQB6N60	(1) (4) (5) (6)
BLV7N60	N channel	600V	7A	1Ω	TO220-FP TO220-AB	FQB7N60	(1) (4) (5) (6)
BLV7002	N channel	60V	115mA	5Ω	SOT23-3	2N7002	(7)
BLV730	N channel	400V	5.5A	1Ω	TO220-FP TO220-AB	IRF730	(1) (4) (5) (6) (8)
BLV740	N channel	400V	10A	0.55Ω	TO220-FP TO220-AB	IRF740	(1) (4) (5) (6) (8)
BLV830	N channel	500V	4.5A	1.5Ω	TO220-FP TO220-AB	IRF830	(1) (4) (5) (6) (8)
BLV840	N channel	500V	8A	0.85Ω	TO220-FP TO220-AB	IRF840	(1) (4) (5) (6) (8)
BLV640	N channel	200V	18A	0.18Ω	TO220-FP TO220-AB	IRF640	(1) (4) (5) (6) (8)

Telecomm and Mobile 固定及移动通讯电路

Standard Interface Circuit (标准接口电路)

Part No.	Features	Standard	VDD	ICC	Package	Max. points	Range of Temp.	Reference
BL3085E	15KV ESD protected, high-speed transceivers	RS-485	5V	0.3mA	SOP8 DIP8	256	-40~+85° C	MAX3085E
BL13085E	15KV ESD protected, high-speed transceivers	RS-485	5V	0.3mA	SOP8	256	-40~+85° C	MAX13085E
BL1501	4-channel differential line driver	RS-422	5V	0.8mA	SOP16	-	-40~+85° C	26C31
BL1502	4-channel differential line receiver	RS-422	5V	16mA	SOP16	-	-40~+85° C	26C32

Multimedia Signal Codec (多媒体数字信号编解码)

Applications: A-law monolithic PCM CODEC/filter with A/D and D/A converter and a serial PCM interface. Used in switch, voice card and so on.

Part No.	Features	VDD	Package	Reference
BL1302A57	A-law monolithic PCM CODEC/filter with A/D and D/A converter and a serial PCM interface.	±5V	DIP16 SOP16	TP3057
BL1302A67	A-law monolithic PCM CODEC/filter with A/D and D/A convertor and a serial PCM interface.	±5V	DIP20 SOP20	TP3067

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

Part No.	Features	VDD	Package	Reference
BL1101	Dialer Control Circuit	2.0~5.5V	PDIP18	W91330
BL1102	Dialer Control Circuit	2.0~5.5V	PDIP22	W9145
BL1110A	Low Voltage Transmission Circuit With Dialer Interface	2.0~5.5V	SOP14	TEA1110A
BL1240	Telephone Tone Ringer	60~90V	PDIP8 SOP8	LS1240
BL34018	Voice Switched Speakerphone Circuit	6~11V	SDIP28 SSOP28	MC34018
BL34118	Voice Switched Speakerphone Circuit	3.0~6.5V	DIP28 SOP28	MC34118

Analog Switch (模拟开关)

Part No.	Mode	Features	VDD	Package	Ref.
BL1551	SPDT	300 MHz Low-Voltage Analog Switch	1.80V~5.5V	SC70	FSA3157 NLAS3157 SGM3157
BL4684C	Dual SPDT	Analog Switch	1.65V~5.5V	CSP10	PI5A4684 MAX4684 SGM4684
BL1553	SPDT	0.6Ω 80MHz Low-Voltage Analog Switch	1.8V~5.5V	SC70	NLAS4157 TS5A3159
BL1554	Quad SPDT	Analog Switch	1.6V~4.2V	TQFN16	NLAS3699 FSA2467 PI3A412

Touch Screen Controller (触摸屏电路)

Part No.	Features	VDD	Package	Reference
BL2046	Low Voltage I/O Touch Screen Controller	2.2~5.5V	QFN16 TSSOP16	TSC2046 AK4182 MT6301

Class AB Audio Amplifier (模拟音频功放电路)

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, (7)MID/UMPC, (8)TV.

Part No.	Features	Output	VDD	Package	Applications	Reference
BL34120	Low Power Audio Amplifier, 0.1μA Supply Current Power Down Mode	250mW	2~6V	SSOP8 DIP8	(2)	NJM2149
BL34119	Low Power Audio Amplifier	400mW	2~16V	SOP8 TSSOP8	(2)	MC34119
BL8602	Low Power Audio Amplifier	400mW	2~16V	DIP8 SOP8 TSSOP8	(2)	KA8602
BL6211	Fully Differential Audio Amplifier With Internal Feedback Resistors	1.25 Watt	2.2~5.5V	MSOP8 CSP9	(1)	TPA6211
BL6203	Fully Differential Audio Power Amplifier	1.25 Watt	2.2~5.5V	CSP8	(1)	TPA6203 TPA6201
BL6290	Audio Power Amplifier	1.25 Watt	2.2~5.5V	MSOP8 SOP8	(3) (4)	LM4990
BL6212	Audio Power Amplifier	1.28 Watt	2.2~5.5V	CSP9 MSOP8	(1) (3)	LM4990 NCP2890 TS4990
BL6299	High PSRR Audio Power Amplifier	1.34 Watt	2.2~5.5V	CSP9	(1) (3)	NCP2890
BL4863	Audio Power Amplifier Plus Stereo Headphone Function	2.2 Watt x2	2.0~5.5V	TSSOP20	(5) (6) (8)	LM4863
BL6217	Stereo Audio Power Amplifier	5 Watt x2	6~17V	FSIP9 HDIP18	(7) (8)	TDA1517

Class D Audio Amplifier (数字音频功放电路)

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, (7)MID/UMPC, (8)TV.

Part No.	Features	Output	VDD	Package	Applications	Reference
BL6105	Mono Filter-Free Class D Audio Power Amplifier	1.4 Watt	2.5~5.5V	DFN8	(1)	TPA2005
BL6305	Mono Filter-Free Class D Audio Power Amplifier	2.6 Watt	2.5~5.5V	MSOP8 DFN8 SOP8	(5) (6) (7) (8)	TPA2005 (TPA2010)
BL6112	Stereo Filter-Free Class D Audio Power Amplifier	2.1 Watt x2	2.2~5.5V	WCSP16 QFN20	(1)	TPA2012
BL6110	Mono Low THD Class D Audio Power Amplifier	3 Watt	2.2~5.5V	CSP9	(3) (6) (7) (8)	TPA2010 NCP2820 TS4962
BL6311	Mono Filter-Free Class D Audio Power Amplifier	3 Watt	2.5~5.5V	CSP9	(3) (6) (7) (8)	TPA2010
BL6100	Stereo Class D Audio Power Amplifier	20 Watt x2	10~26V	QFN48 TQFP48	(8)	TPA3008

Programmable Unit 可编程类

Remote Controller Type MCU (遥控类微控制电路)

Part No.	VDD	ROM	RAM	TIMER	OSC	I/O	SCI/IR	WDT	RTC	PKG	INT	OTHER
BL3501	2.0~5.5V	2K x8 MASK ROM	64B	1 x8bit	DC~4MHz	16	1 xIR	-	√	SOP24	3	LVR,STOP,WAIT,KEYBOARD INT
BL3502S	2.0~5.5V	2K x8 MASK ROM	48B	1 x8bit	DC~4MHz	16	1 xIR	-	-	SOP24 SOP20	2	LVR,STOP,WAIT,KEYBOARD INT
BL3502L	1.6~4.5V	2K x8 MASK ROM	48B	1 x8bit	DC~4MHz	16	1 xIR	-	-	SOP24 SOP20	2	LVR,STOP,WAIT,KEYBOARD INT
BL35P12	2.0~5.5V	2K x8 OTP ROM	64B	1 x8bit	DC~4MHz	16	1 xIR	√	-	SOP24	2	LVR,STOP,WAIT,KEYBOARD INT
BM35P02	1.8~3.6V	2K x8 OTP ROM	32B	1 x8bit	DC~4MHz	14	1 xIR	-	-	SOP20 SOP16	2	STOP,WAIT,KEYBOARD INT

I/O Type MCU (I/O 型微控制电路)

Part No.	VDD	ROM	RAM	TIMER	OSC	I/O	WDT	PKG	INT	OTHER
CM2004	2.0~6.5V	1K x12 MASK ROM	25B	1 x8bit	DC~20MHz	12 (14)	√	DIP18 SOP16	-	-
CM5001	2.4~5.5V	1K x12 OTP ROM	25B	1 x8bit	DC~20MHz	12	√	DIP18 SOP20	-	LVR,PULLUP&PULL DOWN,I/O WAKE-UP
CM8001	2.4~5.5V	1K x12 OTP ROM	25B	1 x8bit	DC~20MHz	11	√	SOP16	-	LVR,PULLUP&PULL DOWN,I/O WAKE-UP
BM22P02	2.0~5.5V	2K x8 OTP ROM	64B	1 x8bit	DC~4MHz	18	√	SOP20 SOP18	3	PULLUP&PULLDOWN,STOP,WAIT,KEYBOARD INT,IN-RC

A/D Type MCU (A/D 型微控制电路)

Part No.	VDD	ROM	RAM	TIMER	OSC	I/O	ADC/DAC	WDT	PKG	INT	OTHER
BL2220SR3	4.5~5.5V	4K x8 MASK ROM	192B	1 x8bit	DC~4MHz	32	6 x8bit ADC	√	DIP40	4	LVR,STOP,WAIT,KEYBOARD INT
BM22P64	2.7~5.5V	4K x8 OTP ROM	208B	2 x8bit	DC~4MHz	18	9 x10bit ADC/ 8bit PWM	√	SOP20 DIP20	4	LVR,STOP,WAIT,PULLUP,IN-RC,EX-RC

LCD Type MCU (LCD 型微控制电路)

Part No.	VDD	ROM	RAM	TIMER	OSC	I/O	SCI/IR	LCD	WDT	PKG	INT	OTHER
BL2456	2.2~5.5V	4K x8 MASK ROM	288 x4B	2 x8bit	MAIN:4MHz	14	1 x IR	32 x4	√	QFP64	6	STOP,BUZZ
BM22P14	2.4~5.5V	4K x8 OTP ROM	128 x8B	1 x8bit/1 x16bit	SUB:32K	14	-	18 x4/19 x3	√	SSOP48 LQFP48	7	STOP,BUZZ,EX-RC

Mouse controller (鼠标控制芯片)

Part No.	Application	Feature	Resolution	FOSC	VDD	Package
SMC520	PS/2 Mouse	3D 3Key Normal	300/600 CPI	8MHz	2.7~6.5V	DIP16
SMC522	PS/2 Mouse	3D 3Key/5Key Optical	400/800 CPI	6MHz	2.7~6.5V	DIP16

Real Time Clock (低功耗实时时钟)

Part No.	Alarm Sets	Periodic	Standby	32KHz Clock	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	1.2~5.5V	1.8~5.5V	SOP8 TSSOP8	5C372A
BL5362	N/A	N/A	400nA @3.6V	N/A	N/A	two-wire Serial	1.2~5.5V	1.8~5.5V	SOP8	-

EEPROM, Smart Card & RFID 存储器及智能卡类
Contact (接触式)

Part No.	Capacity	Write Endurance	Data Retention	Standard	VDD	Package	Application
BL7430	104 bits	100K times	10 years	ISO7816	4.5~5.5V	Module	Telephone card
BL7431	256 bits	100K times	10 years	ISO7816	4.5~5.5V	Module	Customize telephone user card
BL7432	2K bits	100K times	10 years	ISO7816	3.0~5.5V	Module	Memory card
BL7442	2K bits	100K times	10 years	ISO7816	3.0~5.5V	Wafer Module	Memory card
BL7448	8K bits	100K times	10 years	ISO7816	3.0~5.5V	Wafer Module	Memory card

Contactless/RFID (非接触式)

Part No.	Capacity	Write Endurance	Data Retention	Standard	Freq.(MHz)	Package	Application
BL75R02	512 bits	100K times	10 years	ISO15693	13.56	Wafer Module Inlay	RFID tags
BL75R05	1K bits	100K times	10 years	ISO15693	13.56	Wafer Module Inlay	RFID tags
BL75R04	2K bits	100K times	10 years	ISO15693	13.56	Wafer Module Inlay	RFID tags
BL75R06	8K bits	100K times	10 years	ISO14443 Type A	13.56	Wafer Module Inlay	Contactless Transportation Card

Serial EEPROM (串行存储器)

Part No.	Capacity	Interface	VDD	Package	Reference
BL24C02	2K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C02
BL24C04	4K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C04
BL24C08	8K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C08
BL24C16	16K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C16
BL24C32	32K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C32
BL24C64	64K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C64
BL24C128	128K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C128
BL24C256	256K bits	two-wire Serial	1.8V~5.5V	DIP8 SOP8 TSSOP8	24C256

Metering 表计

Energy Measurement ASIC (电能计量专用电路)

Part No.	Application	Power consumption	Anti-Tamper	Clock	VDD	Package	Reference
BL0921	Single Phase, Active	25mW	2 Channels	Internal	5V	SOP16	
BL0930	Single Phase, Active	15mW	Reverse indication	Internal	5V	SOP16	AD71056
BL6503	Single Phase, Active	15mW	Reverse indication	3.58MHz	5V	SSOP24	ADE7755
BL6501A	Single Phase, Active	15mW	2 Channels	3.58MHz	5V	SSOP24	ADE7751
BL6502A	Single Phase, Active	25mW	2 Channels	Internal	5V	SSOP24	
BL6504	Single Phase, Active	30mW	2 Channels + Neutral missing detection	Internal	5V	SSOP20	ADE7761
BL6506	Single Phase, Active	25mW	2 Channels	Internal	5V	SSOP20	ADE7760
BL6512	Three Phase, Active	35mW	Reverse indication by each	2.5~4MHz	5V	QFP44	
BL6513	Three Phase, Active	25mW	Reverse indication by any	2.5~4MHz	5V	SOP24	ADE7752A
BL6514	Three Phase, Active	25mW	Reverse indication by sum	2.5~4MHz	5V	SOP24	ADE7752B

Energy Measurement SoC (电能计量集成芯片)

Part No.	Measurement Features	MCU	LCD	Flash	SRAM	RTC	Temperature Sensor	SPI/UART	I2C	WDT	Channels of ADC	VDD	Package
BL6536	Single Phase, Active, I, V	8052	24 x4	32KB	1KB	√		0/5*		Yes	4	5.0V	LQFP64
BL65E39	Single Phase, Active, I, V, PF	8052	40 x4	External	32KB	√	Yes	1/3	Yes	Yes	4	3.3V	LQFP128
BL65F39	Single Phase, Active, I, V, PF	8052	40 x4	64KB	32KB	√	Yes	1/3	Yes	Yes	4	3.3V	LQFP128

*Re-defined by GPIO

LCD Display Driver (液晶显示驱动)

Part No.	Features	IDD (Power Saving)	IDD (Normal Mode)	I/O	VDD	Package	Reference
BL55066	4 x24 Segments	12μA@3.5V	25μA@5V	two-wire Serial	2.5~6V	LQFP44	PCF8566
BL55076	4 x40 Segments	20μA@3.5V	45μA@5V	two-wire Serial	2~6V	LQFP64	PCF8576

Relay Driver (磁保持继电器驱动)

Application: Pre-paid meter system or Power switch.

Part No.	Feature	Standby	Input Mode	Output	VDD	Package
BL8023	Bidirectional Relay Driver	10nA	(1) Pulse (100ms) (2) Voltage	140mA@9V 270mA@12V	9~16V	DIP8 SOP8

Consumer Electronics 消费电子类

Audio (音频电路)

Part No.	Feature	VDD	Package	Reference
BL0306	Digital Echo/Delay for karaoke or similar Application	4.0~5.5V	PDIP36	M50195P
BL3102	Low voltage BBD clock generator/driver	4.0~10V	PDIP8	MN3102
BL3207	1024 level low noise Low voltage BBD	4.0~10V	PDIP8	MN3207
BL3208	2048 level low noise Low voltage BBD	4.0~10V	PDIP8	MN3208

Infrared Remote Control (远程控制及遥控电路)

Part No.	Feature	VDD	Package	Reference
BL6122	IR transmitter that supports 64 keys, and supports 128+6 commands at most	2.2~5.5V	SOP24	6122
BL9148	IR transmitter that supports 63 continuous commands 12 single-shot keys, and works with receiver BL9149/BL9150	2.2~5.5V	DIP16/SOP16	TC9148
BL9149	IR receiver that controls 10 keys, parallel output up to 5 functions, and works with transmitter BL9148	4.4~5.5V	DIP16/SOP16	TC9149
BL9150	IR receiver that controls 18 keys, parallel output up to 6 functions, and works with transmitter BL9148	4.4~5.5V	DIP24/SOP24	TC9150
BL0509	IR receiver that controls 10 keys, parallel output up to 5 functions, and works with transmitter BL9148	4.4~5.5V	DIP16	BA5049
BL0510	IR receiver that controls 18 keys, parallel output up to 6 functions, and works with transmitter BL9148	4.4~5.5V	DIP24	BA5050

Small Home Appliances Control (小家电控制电路)

Part No.	Feature	VDD	Package	Reference
BM4003	Controller of Electric IRON. Their intelligence mainly results from their sensitive detection to the movement and static position.	4.5-5.5V	DIP8	PT8A3511

Half Bridge Driver (半桥电路驱动)

Applications: Electric tools, e-bike, Lighting (HID and Ballast), DC Variable Frequency motor, etc.

Part No.	Voltage rating	VIN	Driving sink current	Driving source current	Deadtime	IQ	Package	Reference
BL8003L	100V	10~16V	430mA	210mA	600ns	0.15mA	SOP8	
BL8003	600V	10~16V	200mA	150mA	700ns	1.5mA	SOP8	IR2103

Smoke Detector (烟雾检测电路)

Part No.	Feature	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
BL5918	Ionization type with interconnect and Temporal Horn Driver	N/A	temporal alarm	5μA	Not yet	DIP16

Part No.	Feature	Hush	Output Signal	Standby Current	UL Certified	Package
BL5965	Photoelectric type with I/O	Yes	continuous alarm	6μA	Pass	DIP16 SOP16
BL5966	Photoelectric type with I/O	Yes	temporal alarm	6μA	Pass	DIP16 SOP16

Lighting (照明)

Fluorescent Lamp Driver (荧光灯驱动系列)

Part No.	Applications	Main Feature	Preheat	Freq.	Package
BL8305A	Ballast	Driving both MHF and BHF, preheat time and run frequency and comprehensive protection, automatically adjusting the BCI of BHF	Freq. Programmable	10K~300K	PDIP14 SOP14
BL8303	Starter	Programmable ignition times, comprehensive fault protection	Time Programmable	-	PDIP8 SOP8

LED driver (LED 驱动)

Application: LED lighting driver

Part No.	Features	MODE	VIN	IOUT	Current Accuracy	IQ	Package	Reference
BL8585	Wide input voltage range LED Driver	Linear	5~90V	40mA	±10%		TO92	CL2
BL9580	High power LED driver	Step-down	6V~30V	1.4A	±4%	50μA	SOT23-5 SOT89-5	ZXLD1360

Charge Pump LED Driver (电荷泵型 LED 背光驱动电路)

Application: LED Backlight

Part No.	MODE	Vin	No. Channels	Driving Current	Freq(MHz)	Accu.	Channel Matching	Package	Reference
BL8588	1 X/1.5 X Charge Pump	2.7~5.5V	4	20mA X 4	1	5%	3%	QFN16	CP2133

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	LED backlight	AMC7110
BL8581	Linear	2.8~5.5V	4	20mA×4	N/A	±3%	±3%	MSOP8	LED backlight	AMC7111
BL8581A	Linear	2.8~5.5V	4	20mA×4	N/A	±3%	±3%	QFN16	LED backlight	KTD108
BL8589	Linear	2.8~5.5V	16	50mA×16(Max)	25	±1%	±1.5%	SSOP24 QFN24	LED display	TCA62746
BL8583	Linear	2.8~6.5V	3	30mA×3(Max)	15	N/A	N/A	SOP14	LED display	
BL8586	Linear	2.8~6.5V	6	30mA×6(Max)	15	N/A	N/A	SSOP20	LED display	2QL9712
BL8585	Linear	5~90V	1	40mA(Max)	N/A	±10%	N/A	TO92	LED lighting	CL2

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.	Switch	Package	Application
BL8508	PWM	2~10V	36V	700μA	900KHz	80%	Internal	SOT-23-5	Step-up converter to drive two to six 20~40mA white LEDs
BL8532	PFM	0.8~6V	6V	20μA	350KHz	87%	Internal	SOT-89-5	Step-up converter to drive one or two 1W white LEDs
BL8545	VFM	2.0~6.0V	24V Max	1μA	3MHz	80%	Internal 1.5A NPN	SOT23-6	LED Backlight

Discrete Devices 分立器件类

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

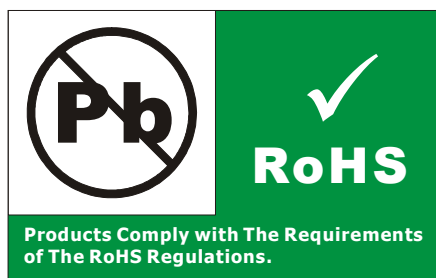
Part No.	Polarity	VCEO(Max)	IC(Max)	fT(Typical)	Package	Reference	Application
BLH4083	NPN	12V	80mA	3.0GHz	SOT23	2SC4083	LNA
BLH4083B	NPN	15V	80mA	3.0GHz	SOT23	2SC4083	LNA
BLH3355	NPN	12V	200mA	4.5GHz	TO92	2SC3355	LNA
BLH3356	NPN	12V	100mA	5.0GHz	SOT23	2SC3356	LNA
BLH3356B	NPN	12V	200mA	4.5GHz	SOT23	2SC3356	LNA
BLH4901B	NPN	14V	100mA	5.5GHz	SOT-323	2SC4901	LNA
BLH4901C	NPN	9V	100mA	6.0GHz	SOT-323	2SC4901	LNA

Varicapacitance Diode (变容二极管)

Part No.	Type	C1V/C8V	VR	Q value	Reference	Application
BLC149	EPI planar	15	20V	200min	1SV149	AM radio band tuning

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