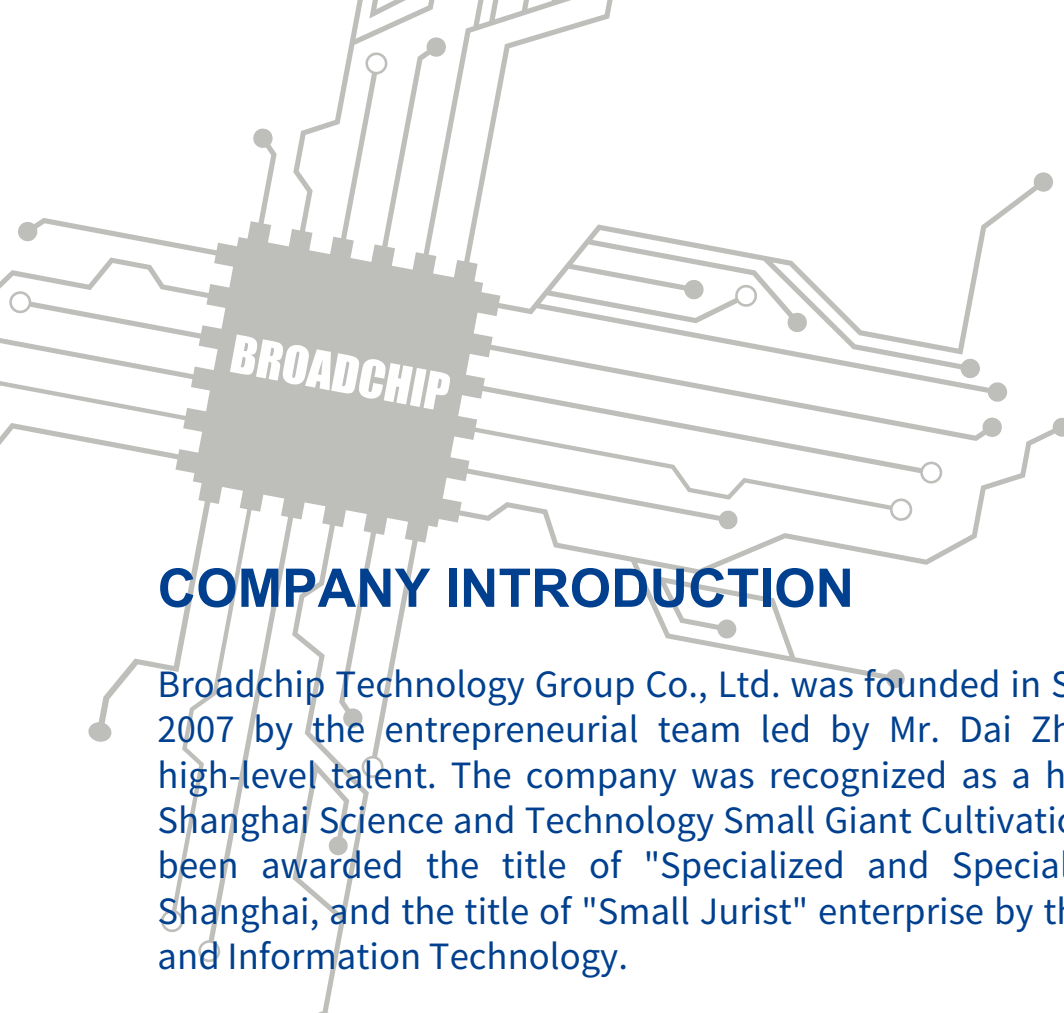




产品手册 2025
Product Catalog 2025



广芯电子技术(上海)股份有限公司
Broadchip Technology Group Co., Ltd.

The logo features the word "BROADCHIP" in a bold, sans-serif font, slanted upwards to the right. It is set against a dark, square background with a grid-like pattern. This central element is surrounded by a complex network of thin, grey lines that resemble a circuit board or a web of connections, with small circles at various points along the lines.

BROADCHIP

COMPANY INTRODUCTION

Broadchip Technology Group Co., Ltd. was founded in Shanghai at the end of 2007 by the entrepreneurial team led by Mr. Dai Zhongwei, an overseas high-level talent. The company was recognized as a high-tech enterprise, a Shanghai Science and Technology Small Giant Cultivation Enterprise, and has been awarded the title of "Specialized and Special New" enterprise in Shanghai, and the title of "Small Jurist" enterprise by the Ministry of Industry and Information Technology.

BROADCHIP focuses on the design, R&D and sales of high-performance analog and mixed-signal integrated circuit chip products. Its products are widely used in mobile phones, tablets, wearable devices, security, Netcom, smart home, home appliances and other general consumer electronic products and communications. , instrumentation, industrial control and other fields.

Since its establishment, the company has successfully developed more than ten series and hundreds of models. With its technical advantages, innovative functions, excellent cost performance, and the company's good services, BROADCHIP has won the unanimous recognition and trust of many brand customers.

BROADCHIP has always paid attention to the technological innovation of products, quality control of products and customer needs. The research and development products have independent intellectual property rights. At present, the company has obtained dozens of authorizations for invention, utility model and integrated circuit layout design. With more than ten years of product development experience and core technology advantages in the field of integrated circuit chips, BROADCHIP has always provided customers with innovative products that are stable, reliable and cost-effective. At the same time, we provide customers with high-quality technical services and technical support. A leader in China's analog integrated circuit chip industry.

Mission:

To provide customers with the highest quality analog integrated circuit chip products and services.

Vision:

China's leading enterprise in analog integrated circuit chip design.

Corporate values:

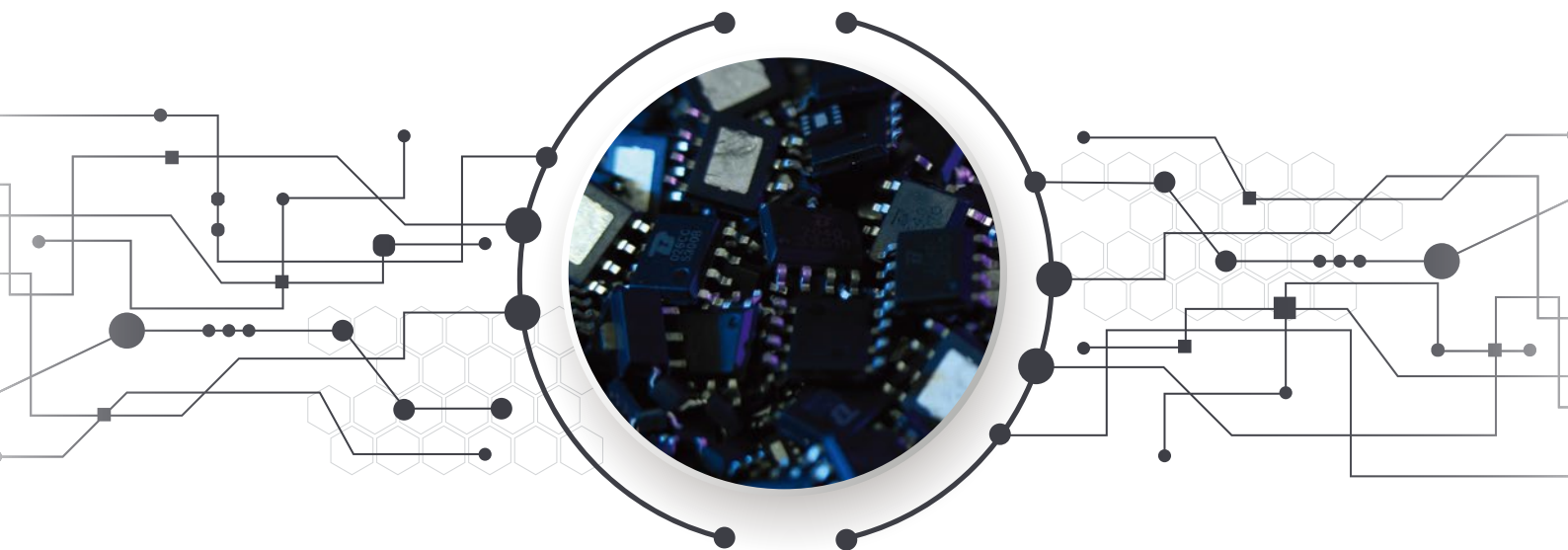
Customer First: Satisfaction and Recognition.

Employee Second: Pride and Happiness.

Shareholder Third: return on investment.

Corporate Code of Conduct:

Corporate Code of Conduct: Do things in a down-to-earth manner and be a real person.



THE CERTIFICATION

资质证书



ABOUT BROADCHIP

认识广芯

- In December 2007, Broadchip Technology Group Co., Ltd. was established.

2007

- Certified as an integrated circuit design enterprise.
- The "Technological Innovation Fund for Small and Medium-Sized Enterprises in Science and Technology" project was approved by the state and Shanghai, and passed the acceptance.

- The dual SIM card control chip (BCT4302) project was identified as a Shanghai high-tech achievement transformation project.

- Passed ISO9001:2008 quality management system certification.
- The white light LED driver chip BCT3220/BCT3221/BCT3222 project was recognized as a Shanghai high-tech achievement transformation project.

- The 2011 Integrated Circuit Design Special Project of Shanghai "Science and Technology Innovation Action Plan" was approved and successfully passed the acceptance.

2016

- Passed ISO14001:2004 Environmental Management System Certification.

2017

- Passed the review of high-tech enterprise certification.

2019

- The "Technology Innovation Fund for Small and Medium-Sized Enterprises in Science and Technology" project was approved by Shanghai and successfully passed the acceptance.

- The re-evaluation passed the double certification of ISO9001:2008 quality management system and ISO14001:2004 environmental management system.

2020

- For the third time, it was recognized as a high-tech enterprise.

- The company was successfully listed on the National Equities Exchange and Quotations System. The stock abbreviation: 广芯电子, stock code: 871366.

2021

- Passed ISO9001:2015 quality management system and ISO14001:2015 environmental management system.

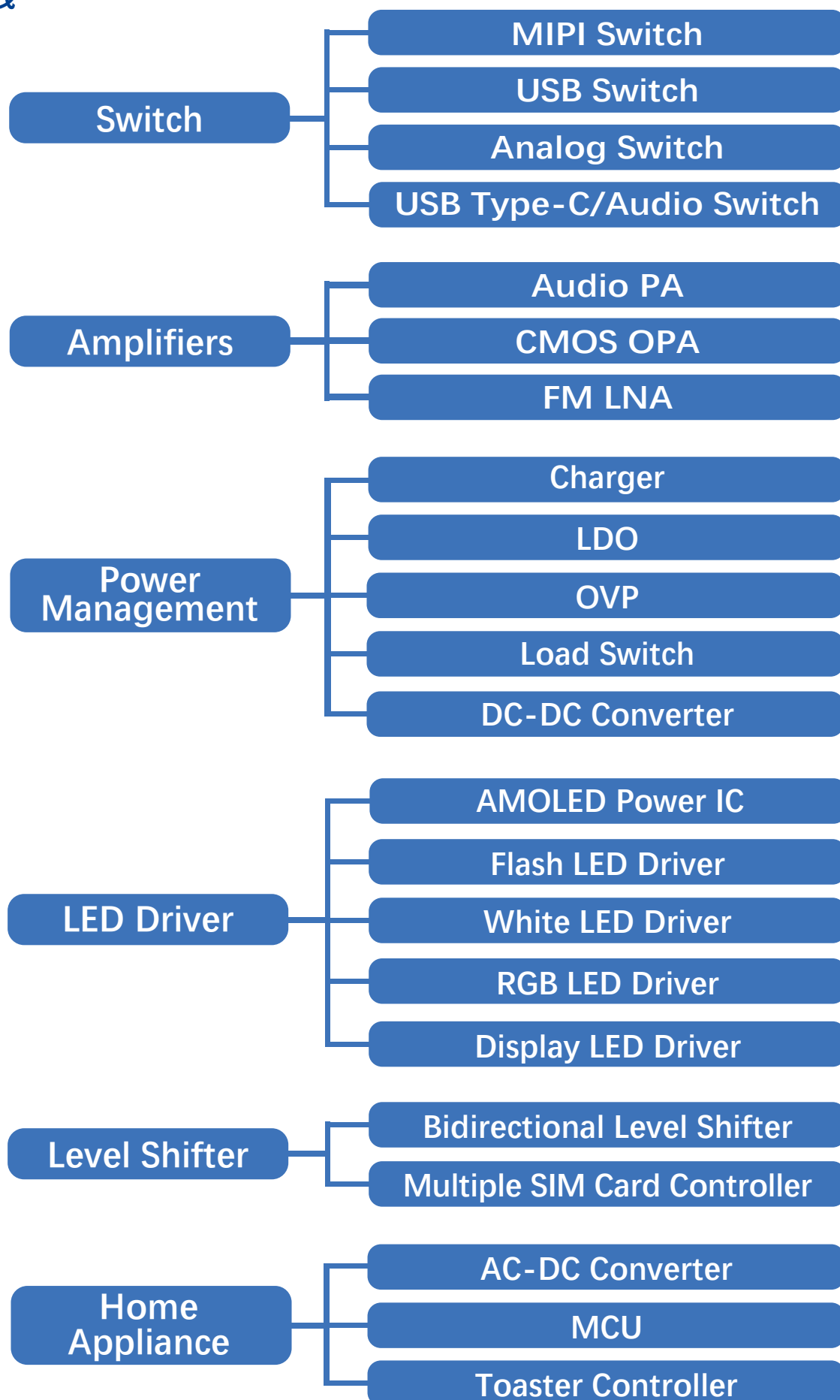
2022

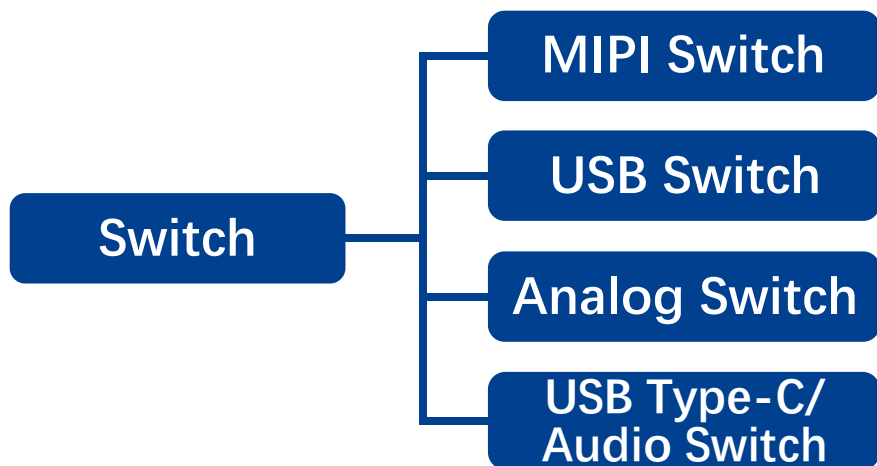
- MIPI switch BCT646 won the best amplifier/data converter of the year in the "2019 China IC Leadership Summit and China IC Design Achievement Award Ceremony" held by ASPENCORE.

2023

- More than 50 authorizations for inventions has been obtained, utility models and layout designs of integrated circuits.
- The total number of chips delivered exceeds 5 billion.

Broadchip Product Line 产品线

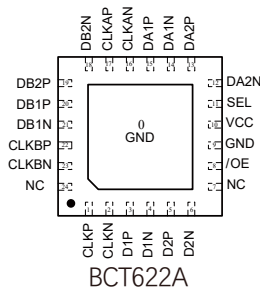




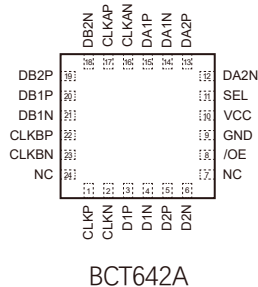
PART No.	Description	V _{IN} (V)	Channels	3dB Bandwidth (Gbps/L)	R _{ON} (Ω)	C _{ON} (pF)	Package	Cross Reference
★BCT622A	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 2-Data Lane Switch	1.65-4.5	2DATA 1CLK	2.5	6	5.2	QFN3x3-24L	
★ BCT645	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 4-Data Lane Switch	1.65-4.5	4DATA 1CLK	2.5	6.5	1.5	QFN4x4-38L	
BCT642A	2:1 MIPI D-PHY (2.5Gbps) 2-Data Lane Switch	1.65-4.5	2DATA 1CLK	2.5	6	5	QFN3.4x2.5-24L	FSA642
BCT644C	2:1 MIPI D-PHY,C-PHY (2.5Gbps) 4-Data Lane Switch	1.65-4.5	4DATA 1CLK	2.5	6	5	FO-36L	FSA644
BCT646C	2:1 MIPI D-PHY,C-PHY (4.5Gbps) 4-Data Lane Switch	1.5-5.0	4DATA 1CLK	4.5	6.5	1.5	FO-36L	FSA646 TS5MP646 PI3WVR646
BCT660	2:1 MIPI C-PHY (5.7Gbps) 1-Data Lane Switch	1.5-5.0	1DATA	5.7	5.4	0.8	QFN2.8x2.0-18L	FSA660
BCT647	2:1 MIPI D-PHY,C-PHY (4.5Gbps) 4-Data Lane Switch	1.5-5.0	4DATA 1CLK	4.5	6.5	1.5	QFN4x4-38L	

★ Please Contact Our Sales Office For More Details

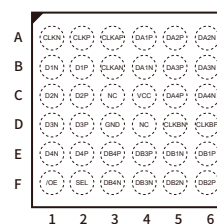
QFN3x3-24L



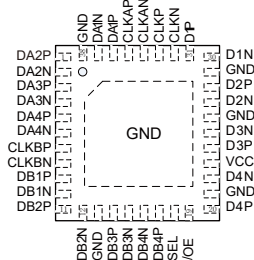
QFN3.4x2.5-24L



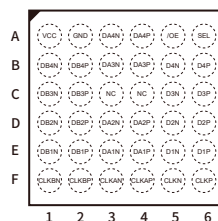
FO-36L



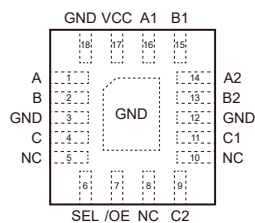
QFN4x4-38L



FO-36L

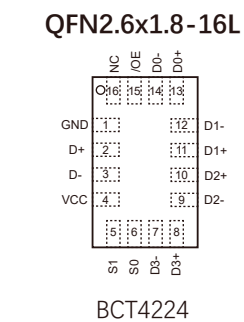
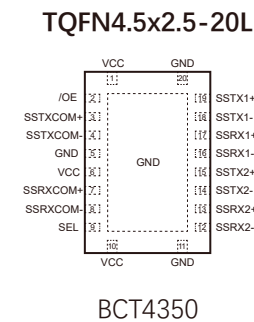
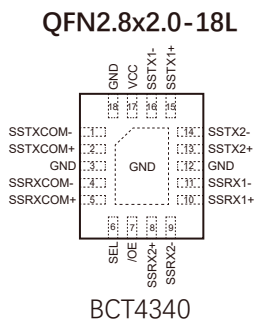
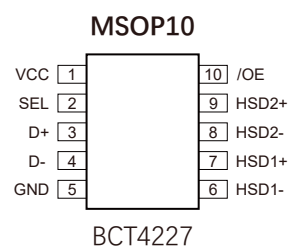
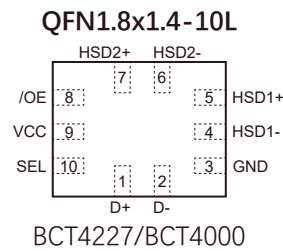
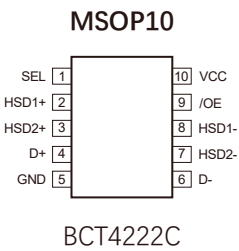
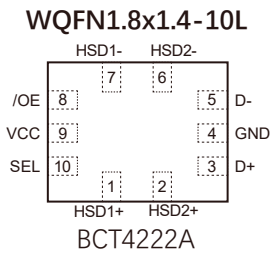
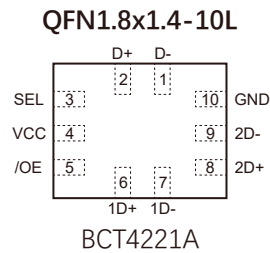
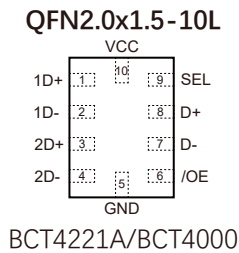


QFN2.8x2.0-18L



PART No.	Description	Configuration	V _{CC} (V)	R _{ON} (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4221A	High-Speed DPDT Analog Switch	DPDT(X1)	2.3-5.5	2	-45	1800	QFN1.8x1.4-10L QFN2.0x1.5-10L	TS3USB221 NX3DV221
BCT4222A	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-30	700	WQFN1.8x1.4-10L	TS3USB30E FSUSB30 NLAS7222 PI3USB10LP-A
BCT4222C	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-30	700	MSOP10	TS3USB30E FUSB30MUX
BCT4227	High-Speed DPDT Analog Switch	DPDT(X1)	1.65-4.5	7	-54	720	MSOP10 QFN1.8x1.4-10L	FSUSB42UMX
★BCT4000	High-Speed DPDT Analog Switch With OVP	DPDT(X1)	2.3-5.5	5.5	-90	1500	QFN1.8x1.4-10L QFN2.0x1.5-10L	PI3USB4000A DIO5000
BCT4340	USB3.1 Super Speed 10 Gbps Switch	QPDT(X1)	1.5-5.0	5.4	-44	10000	QFN2.8x2.0-18L	FUSB340
BCT4350	USB3.1 Super Speed 10 Gbps Switch	QPDT(X1)	1.5-5.0	5.4	-44	10000	TQFN4.5x2.5-20L	CBTL02043A PI3USB302 PI3PCIE3212
BCT4224	USB2.0 High-Speed Switch	DP4T	2.3-5.5	3	-43	1600	QFN2.6x1.8-16L	

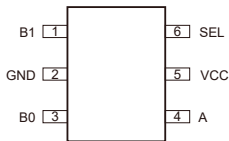
★ Please Contact Our Sales Office For More Details



Analog Switch

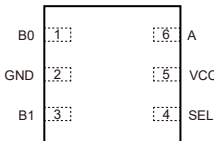
PART No.	Description	Configuration	V _{CC} (V)	R _{ON} (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4157	Low-Voltage, Analog Switch	SPDT(X1)	1.65-5.5	2.8	-54	300	SC70-6L SOT23-6 DFN1x1-6L DFN1.1x0.9-6L	SN74LVC1G3157 TS5A3157/FSA3157/5157 NC7SBU3157/WAS3157 NLAS4157/PI5A3157 SGM3157/4157/RS2057 ET3157/BL1551/DIO3157
BCT4223	Low-Voltage, Analog Switch	SPDT(X2)	1.65-5.0	1.2	-103	100	QFN1.8x1.4-10L	TS3A5223 FSA2259UMX NLAS5223/PI3A223 SGM5223/SGM3718
BCT4699	Ultra Low ON-Resistance Low-Voltage, Analog Switch	DPDT(X2)	1.8-5.0	0.5	-86	100	TQFN3x3-16L UTQFN2.6x1.8-16L	TS3A44159 NLAS3699/PI3A412 SGM3699
BCT4899	Low-Voltage, Analog Switch	DPDT(X2)	1.8-5.5	5	-60	500	TQFN3x3-16L QFN2.5x2.5-16L UTQFN2.6x1.8-16L	FSA2466/MAX4699 NLAS3899B/PI3A3899 SGM44599
BCT4330	Low-Voltage, Analog Switch	QPDT(X1)	1.8-5.5	5	-60	500	SOP16 SSOP16 TSSOP16 QFN3x3-16L QFN3x3-20L	ADG774/774A/794 G3204 FSAL200 FSAV330/430 ADG784 FST3253/3257 PI3L110/PI3V312/PI5L200 SN74XX3257/STMAV340 SGM5018/330A TMUX1574/TS3A5018
BCT44600	Low-Voltage, Analog Switch	QPDT(X1)	1.8-5.5	5	-60	500	QFN3x3-16L	SGM44600
BCT44602	Low-Voltage, Analog Switch	QPDT(X1)	1.8-5.5	5	-60	500	QFN2.6x1.8-16L	SGM44602
BCT44603	Low-Voltage, Analog Switch	QPDT(X1)	1.8-5.5	5	-60	500	QFN2.6x1.8-16L	FSA2457 SGM44603

SC70-6L
SOT23-6



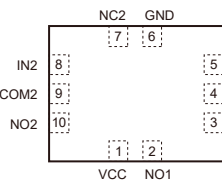
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DFN1x1-6L
DFN1.1x0.9-6L



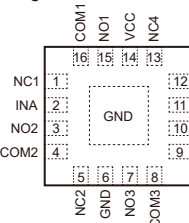
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QFN1.8x1.4-10L



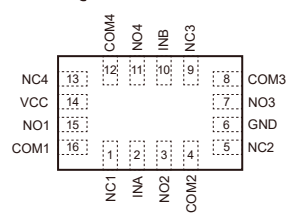
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TQFN3x3-16L
QFN2.5x2.5-16L



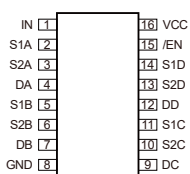
BCT4699/BCT4899

QFN2.6x1.8-16L
UTQFN2.6x1.8-16L



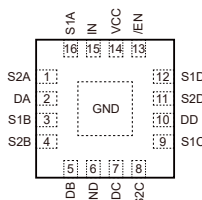
BCT4699/BCT4899

SOP16
SSOP16/TSSOP16



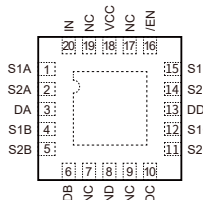
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QFN3x3-16L



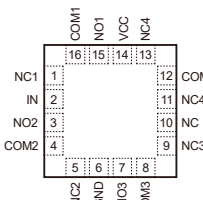
BCT4330

QFN3x3-20L



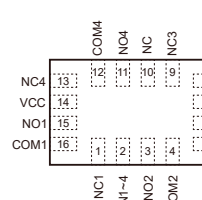
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QFN3x3-16L



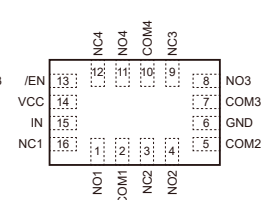
BCT44600

QFN2.6x1.8-16L



BCT44602

QFN2.6x1.8-16L

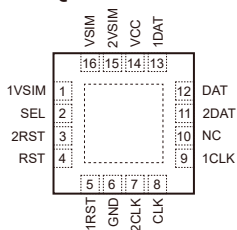


BCT44603

Analog Switch

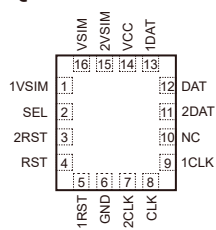
PART No.	Description	Configuration	V _{CC} (V)	R _{ON} (Ω)	Cross Talk (dB)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4567A	Low-Power, Dual SIM Card Analog Switch	QPDT(X1)	1.65-5.0	0.3	-76	260	TQFN3x3-16L UTQFN2.6x1.8-16L	FSA2567
BCT4717A	Dual-SPDT Analog Switch	SPDT(X2)	1.8-5.5	4	-99	300	FO-10L QFN1.8x1.4-10L	SGM4717
BCT48751	Low-Voltage, Analog Switch	SP8T(X1)	2.5-5.5	48		300	SOP16 SSOP16 TSSOP16 QFN3x3-16L	SN74HC4851 TMUX1308 SGM48751
BCT48752	Low-Voltage, Analog Switch	DPQT(X1)	2.5-5.5	48		300	SOP16 SSOP16 TSSOP16 QFN3x3-16L	SGM48752 SN74HC4052

TQFN3x3-16L



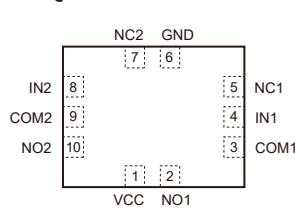
BCT4567A

QFN2.6x1.8-16L



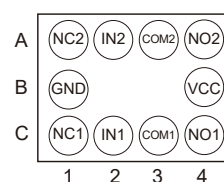
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QFN1.8x1.4-10L



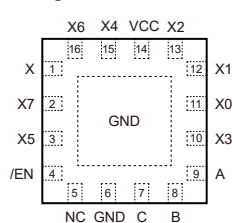
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FO-10L



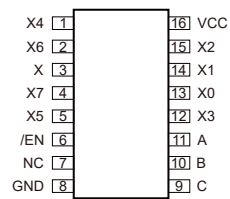
BCT4717A

QFN3x3-16L



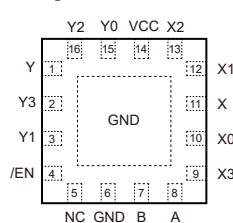
BCT48751

SOP16
SSOP16/TSSOP16



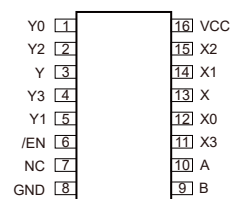
BCT48751

QFN3x3-16L



BCT48752

SOP16
SSOP16/TSSOP16



BCT48752

USB Type-C/Audio Switch

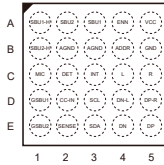
HOT!

HOT!

PART No.	Description	V _{CC} (V)	Audio-R _{ON} (Ω)	USB-R _{ON} (Ω)	Analog Signal Range (V)	-3dB Bandwidth (MHz)	Package	Cross Reference
BCT4480	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	WLCSP-25L	FSA4480
BCT4480C	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	QFN4x4-32L	
BCT4481	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	FO-25L	
*BCT4481C	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	QFN3x3-20L	
BCT4482	USB Type-C Analog Audio Switch with Protection Function	2.7-5.5	1.0	3.0	0 to 20	950	WLCSP-25L	
BCT4888	USB Type-C USB3.2/2.0 Analog Audio Switch with Audio Ground Detection	2.7-5.5	1.0	3.0	0 to 20	10GHz /950MHz	QFN9.0x3.5-42L	
BCT4321N	High-Speed and Audio Switches with Negative Signal Capability(-2V)	2.7-5.0	2.5	8.5	VCC-6.5 to VCC-2	720	QFN1.8x1.4-10L	FSA321

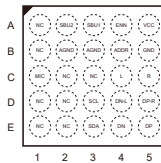
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WLCSP-25L



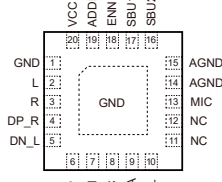
BCT4480/BCT4482

FO-25L



BCT4481

QFN3X3-20L



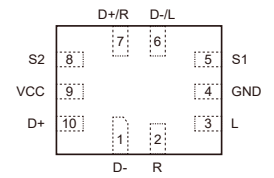
BCT4481C

QFN9.0x3.5-42L

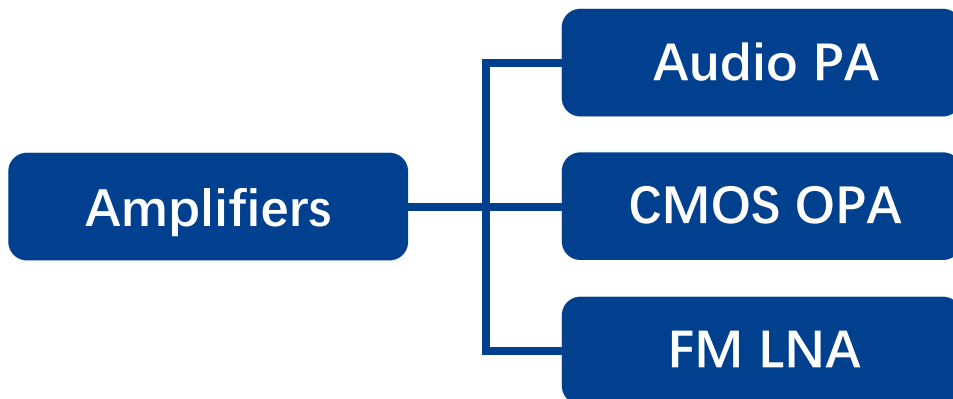


BCT4888

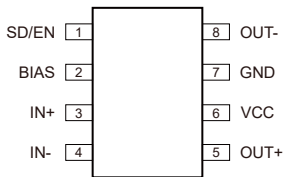
QFN1.8X1.4-10L



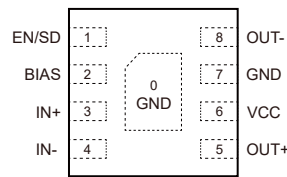
BCT4321N



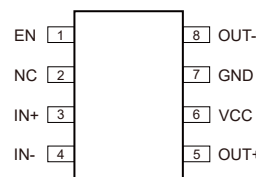
PART No.	Description	Class	Po- 8Ω (W)	V _{IN} (V)	THD+N (%)	I _{SHDN} (uA)	PSRR (dB)	Package	Cross Reference
BCT8002	Low-Cost, Mono 2.2W Audio Power Amplifier	AB	1.5	2.5-5.5	0.1	1	-64	SOP8	BD783XX/LY8898 IS31AP4991A/4996/APA3010 LM4871/4902 /4991 TPA301/321/701/721/741 SGM4871/TS4871/TS4890 NCS2111/SSM2211
BCT8002H	Low-Cost, Mono 2.2W Audio Power Amplifier High Enable	AB	1.5	2.5-5.5	0.1	1	-64	SOP8	APA3011/ECL4890 EMA1001/EUA6204A LM4876/LM4889/LM4890 TPA751/6203/6205/6211 TS4990
BCT8890	Low-Cost, Mono 2.2W Audio Power Amplifier	AB	1.5	2.5-5.5	0.1	1	-64	MSOP8 DFN2x2-8L DFN3x3-8L	IS31AP4991/4991A/4996 APA3010/EMA2004 TPA301/321/701/721/741 TS4871/TS4890
BCT8890H	Low-Cost, Mono 2.2 W Audio Power Amplifier High Enable	AB	1.5	2.5-5.5	0.1	1	-64	MSOP8 DFN2x2-8L DFN3x3-8L	APA0714/APA3011/ECL4890 EMA1001/1002/2001 EUA4890/EUA6204/TS4990 LM4876/4889/4890/4990 SGM4890/4891/4895/4995
BCT8996	Low-Cost, Mono 2.2W Audio Power Amplifier	AB	1.5	2.5-5.5	0.1	1	-64	MSOP8 DFN3x3-10L	SGM4996
BCT8005	Low-Cost, Mono 2.8W Audio Power Amplifier	D	1.67	2.8-5.5	0.11	0.1	-80	SOP8 MSOP8 DFN2x2-8L	XX8005/PAM8303C RT9010/SSM2305 EMA2011/TPA2005
BCT8013	Low-Cost, Mono 2.8W Audio Power Amplifier	D	1.67	2.8-5.5	0.11	0.1	-80	QFN1.5x1.5-9L	AW8010/PAM8013
BCT8933B	Class T Audio Amplifier	T	2	2.5-5.5	0.03 0.06	0.1	-70	QFN3x3-20L	XX8733
BCT8937A	Class T Audio Amplifier	T	1.2	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX8737S
BCT89317A	Class T Audio Amplifier	T	2.15	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX87317
BCT8327	Class T Audio Amplifier	T+AB	2.15	3.3-4.35	0.02	1	-100	WCSP-14L	XX87327
BCT89318A	Class T Audio Amplifier	T	2.15	3.3-4.35	0.08	1	-68	FCQFN1.6x1.6-16L	XX87318

SOP8/MSOP8


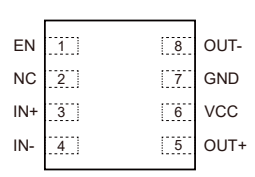
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BCT8890/BCT8890H/BCT8996

DFN3x3-8L/DFN2x2-8L


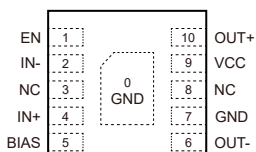
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SOP8/MSOP8


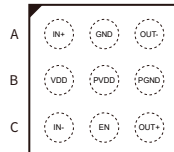
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DFN2x2-8L


BCT8005

DFN3x3-10L


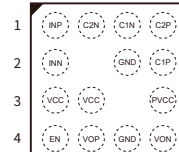
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QFN1.5x1.5-9L


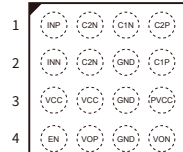
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QFN3X3-20L


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WCSP-14L


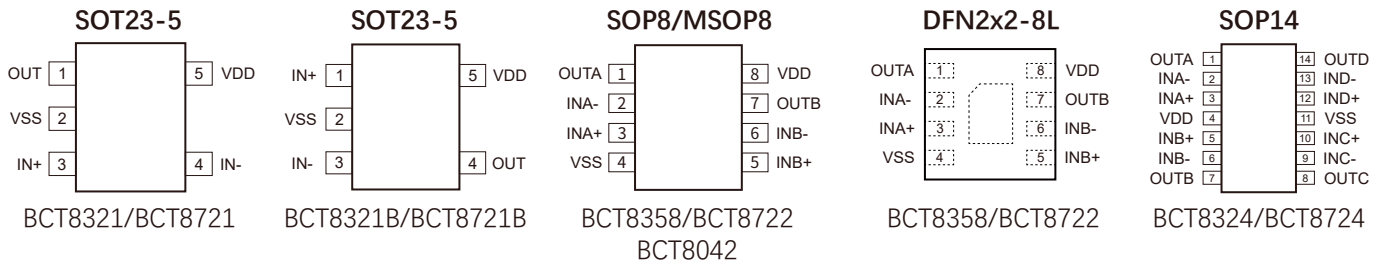
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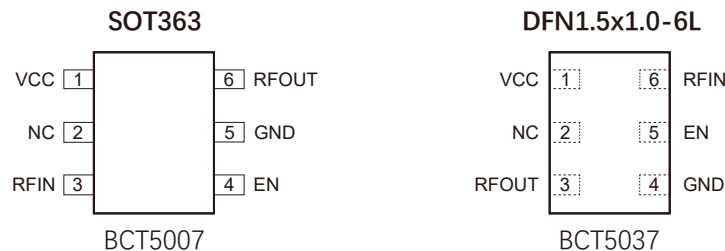
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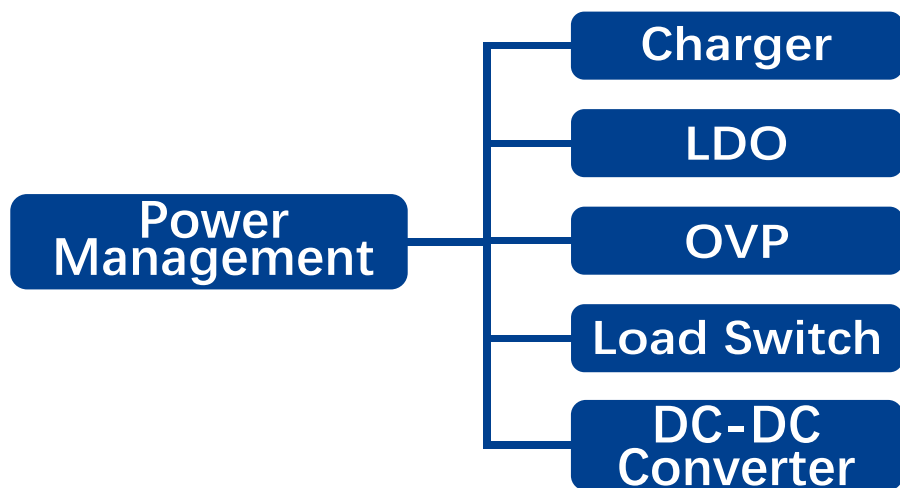
PART No.	Description	V _{IN} Range (V)	I _Q /Channel (mA)	V _{OS} (mV)	PSRR (dB)	Gain Bandwidth (MHz)	Slew Rate (V/uS)	Package	Cross Reference
BCT8321	1 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.12	±0.8	80	1	0.65	SOT23-5	LMV321A MCP6001 SGM321B
BCT8321B	1 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.12	±0.8	80	1	0.65	SOT23-5	LMV321 MCP6L01U SGM321
BCT8358	2 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.06	±0.8	80	1	0.65	SOP8 DFN2x2-8L	LMV358 LMV6002 LM2904LV MCP6002 SGM358
BCT8324	4 Channel RRIO 1MHz, CMOS Amplifier	2.1-5.5	0.06	±0.8	80	1	0.65	SOP14	LMV324 LMV6004 LM2902LV MCP6004 SGM324
BCT8721	1 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	2.2	±0.85	85	15	9	SOT23-5	LMV721 TLV9061 TLV316 MCP6291 SGM721
BCT8721B	1 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	2.2	±0.85	85	15	9	SOT23-5	TLV9061 TLV316
BCT8722	2 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	1.1	±0.85	85	15	9	SOP8 DNF2x2-8L	LMV722 MCP6292 SGM722
BCT8724	4 Channel RRIO 15MHz, CMOS Amplifier	2.1-5.5	1.1	±0.85	85	15	9	SOP14	LMV724 MCP6294 SGM724
* BCT8042	2 Channel RRIO 40KHz, CMOS Amplifier	1.4-5.5	0.0006	±3.5	100	0.014	3.5V/mS	SOP8 MSOP8	SGM8042

* Please Contact Our Sales Office For More Details



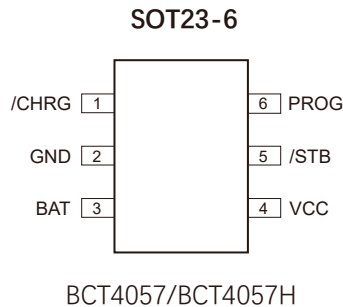
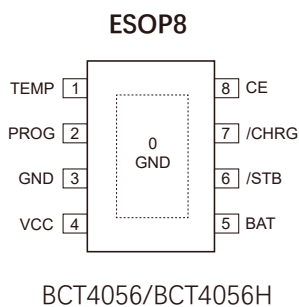
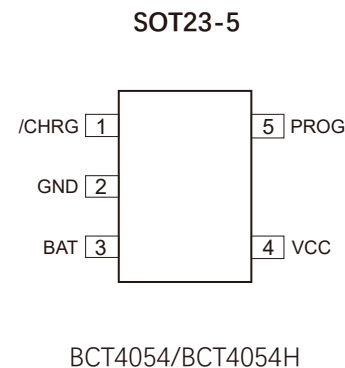
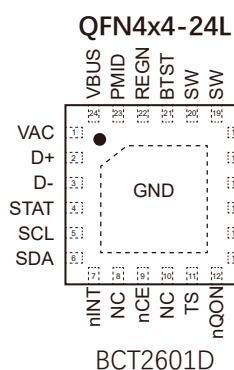
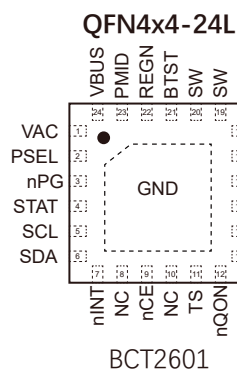
PART No.	Description	V _{CC} Range (V)	I _Q (mA)	Power Gain (dB)	Noise Figure (dB)	Input Return Loss (dB)	Reverse Isolation (dB)	Output Return Loss (dB)	Package	Cross Reference
BCT5007	FM Low Noise Amplifier	2.6-3.6	9.2	21	1.2	-3.7	-39.8	-20.5	SOT363	XX5007
BCT5037	FM Low Noise Amplifier	2.6-3.6	9.2	21	1.2	-3.7	-39.8	-20.5	DFN1.5x1.0-6L	AW5037





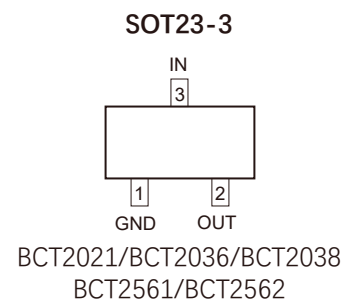
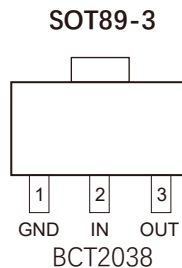
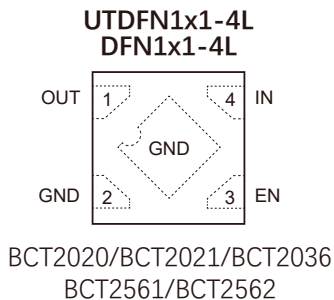
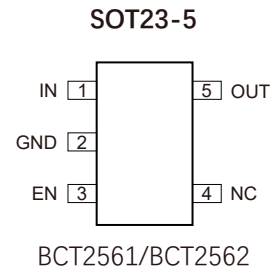
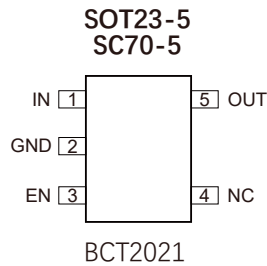
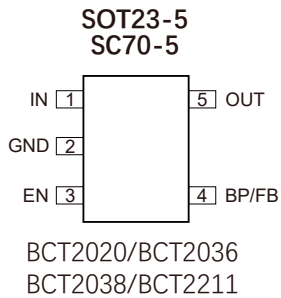
PART No.	Description	Maximum Charge Current (A)	End of Charge Current	V _{BUS} (V)	V _{BUS_MAX} (V)	Charge Voltage Range (V)	Package	Cross Reference
BCT2601	3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator	3	C/50	3.9-13.5	20	3.86-4.62	QFN4x4-24L	BQ25601
BCT2601D	3A Single-Cell Li-Ion Switching Charger with USB-OTG Boost Regulator and BC1.2 available	3	C/50	3.9-13.5	20	3.86-4.62	QFN4x4-24L	
BCT4056	1.0A Li-Ion Linear Charger Management	1.0	C/10	4.0-6.5	6.5	4.2-4.35	ESOP8	XXX4056
BCT4054	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-6.5	6.5	4.2-4.35	SOT23-5	XXX4054
BCT4057	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-6.5	6.5	4.2-4.35	SOT23-6	XXX4057
*BCT4056H	1.0A Li-Ion Linear Charger Management	1.0	C/10	4.0-36	36	4.2-4.35	ESOP8	XXX4056
*BCT4054H	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-36	36	4.2-4.35	SOT23-5	XXX4054
*BCT4057H	0.7A Li-Ion Linear Charger Management	0.7	C/10	4.0-36	36	4.2-4.35	SOT23-6	XXX4057

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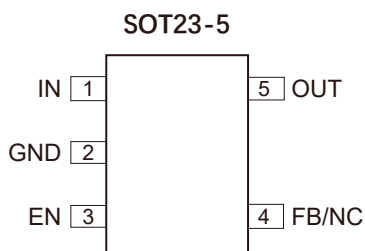
LDO (Low Voltage)

PART No.	Description	V _{IN} Range (V)	V _{OUT} Range (V)	I _Q (μ A)	I _{OUT} (mA)	Current Limit (mA)	PSRR (dB@1KHz)	Package	Cross Reference
BCT2020	300mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	300	560	70	SC70-5 SOT23-5 UTDFN1x1-4L	SGM2036
BCT2021	300mA Low IQ Low Dropout Regulators	1.6-6.0	1.0 1.2 1.8 2.5 2.8 3.0 3.3	35	300	500	70	SC70-5 SOT23-3 SOT23-5 UTDFN1x1-4L	SGM2036 ETA5053
BCT2036	300mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	300	560	75	SC70-5 SOT23-3 SOT23-5 UTDFN1x1-4L	TLV703 SGM2036
BCT2038	500mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	500	800	75	SC70-5 SOT23-3 SOT23-5 SOT89-3	TLV755P ME6211
BCT2211	500mA Low IQ Low Dropout Regulators	1.6-5.5	1.2 1.8 2.8 3.0 3.3 (0.8-5.0)ADJ	20	500	800	70	SC70-5 SOT23-5	TLV755P
BCT2561	2 μ A IQ, Low Dropout Regulators	1.6-5.5	0.75 0.8 1.05 1.2 1.3 1.5 1.8 1.85 2.5 2.8 3.0 3.3	2	300	550	70	SOT23-3 SOT23-5 UTDFN1x1-4L	XC6233 RP110L RT9073 TPS7A05
BCT2562	2 μ A IQ, Low Dropout Regulators	1.6-5.5	0.8 0.9 1.2 1.3 1.5 1.8 1.85 2.5 2.8 3.0 3.3	2	600	1000	70	SOT23-3 SOT23-5 UTDFN1x1-4L	XC6233 RP110L RT9073 TPS7A05

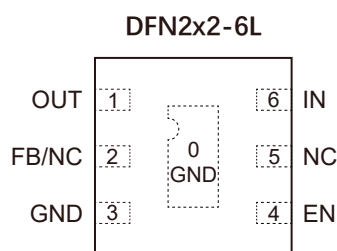


LDO (Low Voltage)

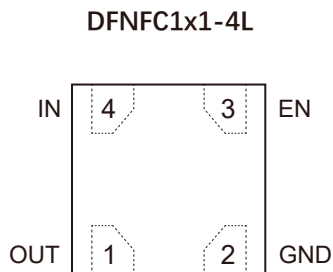
PART No.	Description	V _{IN} Range (V)	V _{OUT} Range (V)	I _Q (uA)	I _{OUT} (mA)	Current Limit (mA)	PSRR (dB@1KHz)	Package	Cross Reference
BCT2057	1000mA Low Dropout Regulators	1.6-5.5	0.8 0.9 1.0 1.05 1.1 1.2 1.3 1.35 1.5 1.8 2.2 2.5 2.8 3.0 3.3 3.6 (0.8-5.0)ADJ	30	1000	1800	60	SOT23-5 DFN2x2-6L	TLV757 XC6227
BCT2910	Ultra Low Noise and High PSRR LDO Regulators	1.8-5.5	1.2 1.5 1.8 2.5 2.8 3.0 3.3 4.2 5.0	14	300	530	94	WLCSP-4L	LP5910
BCT2160	Ultra Low Noise and High PSRR LDO Regulators	1.8-5.5	1.2 1.5 1.8 2.5 2.8 3.0 3.3 4.2 5.0	14	300	530	94	SOT23-5 DFNFC1x1-4L	NCP160 TPS7A20 LP5907 SGM2033
BCT2186	1000mA Ultra Low Dropout Regulators	1.8-5.5	0.8 0.9 1.0 1.05 1.1 1.2 1.3 1.35 1.5 1.8 2.2 2.5 2.8 3.0 3.3 3.6 (0.8-5.0)ADJ	30	1000	1400	75	DFN1.6x1.2-8L	NCP186 RP115
BCT2186L	1000mA Ultra Low Dropout Regulators	1.6-5.5	(0.6-5.0)ADJ	30	1000	1400	75	DFN2x2-6L	



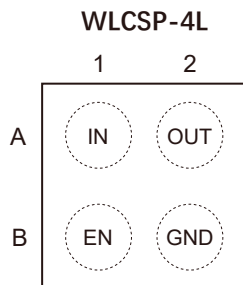
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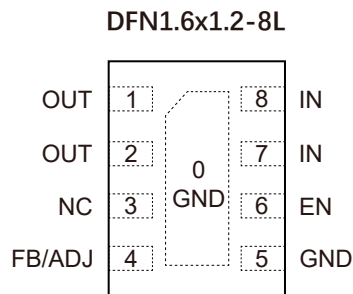
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BCT2160



BCT2910

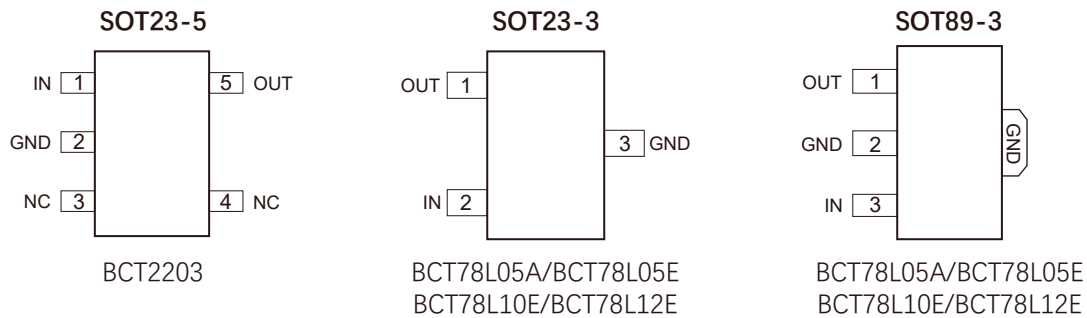
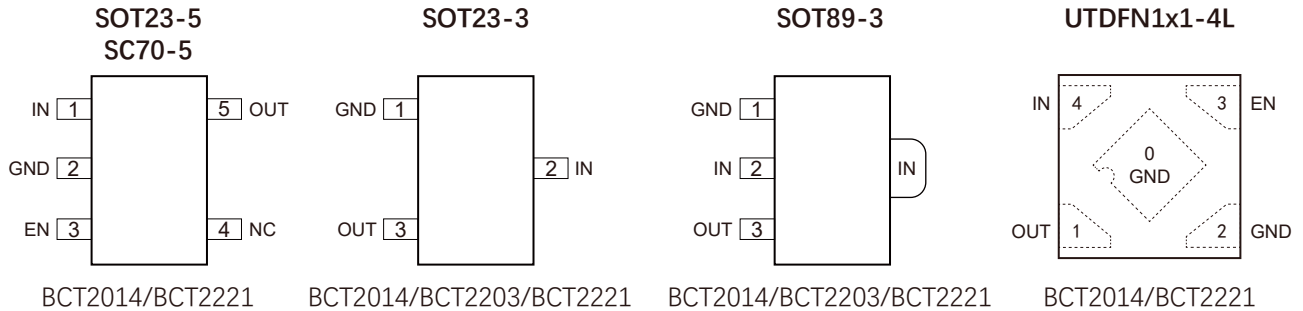


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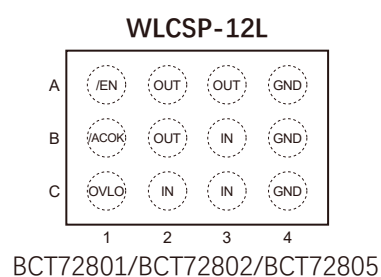
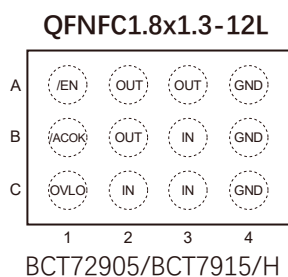
LDO (High Voltage)

PART No.	Description	V _{IN} Range (V)	V _{OUT} Range (V)	I _Q (uA)	I _{OUT} (mA)	Current Limit (mA)	PSRR (dB@1KHz)	Dropout(3.3V) (mV)	Package	Cross Reference
BCT2014	0.7uA IQ Low Dropout Regulators	2.5-15	1.5 1.8 2.5 2.8 3.0 3.3 3.6 4.2 4.5 5.0	0.7	300	500	40	320	SC70-5 SOT23-3 SOT23-5 SOT89-3 UTDFN1X1-4L	XC6233 RP110L RT9073
*BCT2221	2.5uA IQ Low Dropout Regulators	2.5-13	1.5 1.8 2.5 2.8 3.0 3.3 4.2 4.5 5.0	2.5	300	500	70	320	SOT23-3 SOT23-5 SOT89-3 UTDFN1X1-4L	
BCT2203	2.5uA IQ High Voltage Regulators	2.7-36	1.5 1.8 3.0 3.3 4.2 4.5 5.0 8.0 9.0 10.0 12.0	2.5	150	230	40	1300	SOT23-3 SOT23-5 SOT89-3	TLV704 TPS709 SGM2203
BCT78L05A	0.7uA IQ Low Dropout Regulators	5.5-15	5	0.7	300	500	40	320	SOT23-3 SOT89-3	78L05
BCT78L05E	3uA IQ High Voltage Regulators	2.7-36	5	3	150	500	40	1300	SOT23-3 SOT89-3	78L05
*BCT78L10E	3uA IQ Low Dropout Regulators	2.7-36	10	3	150	500	40	1300	SOT23-3 SOT89-3	78L05
*BCT78L12E	3uA IQ High Voltage Regulators	2.7-36	12	3	150	500	40	1300	SOT23-3 SOT89-3	78L05

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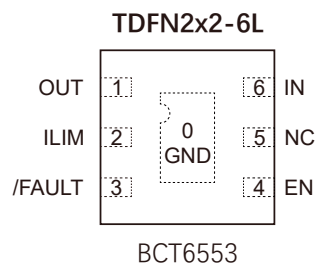
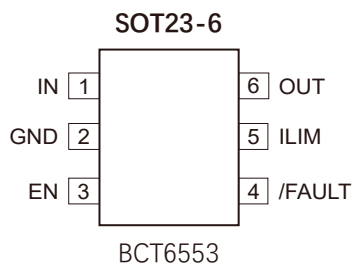


PART No.	Description	R _{DS(on)} (mΩ)	Continuous Current (A)	Peak current (A)	V _{IN_OVLO} (V)	OVP Adjustable Range (V)	V _{IN_MAX} (V)	Surge Protection (V)	Package	Cross Reference
BCT72905	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	110	QFNFC1.8x1.3-12L	MAX14654 MAX14717 SGM40654 SGM40657
BCT72805	Over-Voltage Protection Load Switch	20	5	8	6.8	4-20	29	120	WLCSP-12L	MAX14654 MAX14717 SGM40654 SGM40657
BCT7915	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	110	QFNFC1.8x1.3-12L	MAX14655 SGM40655 SGM40658
BCT7915H	Over-Voltage Protection Load Switch	30.7	4.5	7	6.8	4-20	29	100	QFNFC1.8x1.3-12L	MAX14655 SGM40655 SGM40658



Load Switch

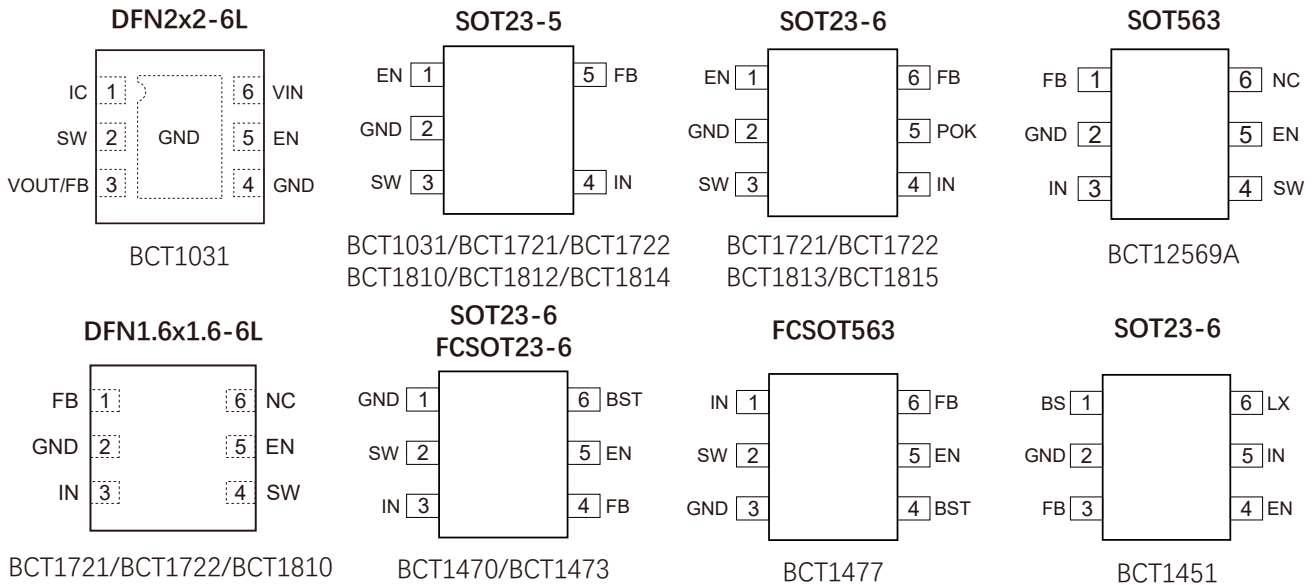
PART No.	Description	V _{CC} (V)	I _Q (uA)	R _{ON} (mΩ)	I _{LIM} (A)	Over-Current Response (uS)	Quick Auto- Discharge	Response FAULT	Package	Cross Reference
BCT6553	Power Distribution Switch	2.5-5.5	62	90	1.7	2	YES	YES	SOT23-6 TDFN2x2-6L	TPS2551 TPS2552 TPS2553 TPS25221 SGM2553

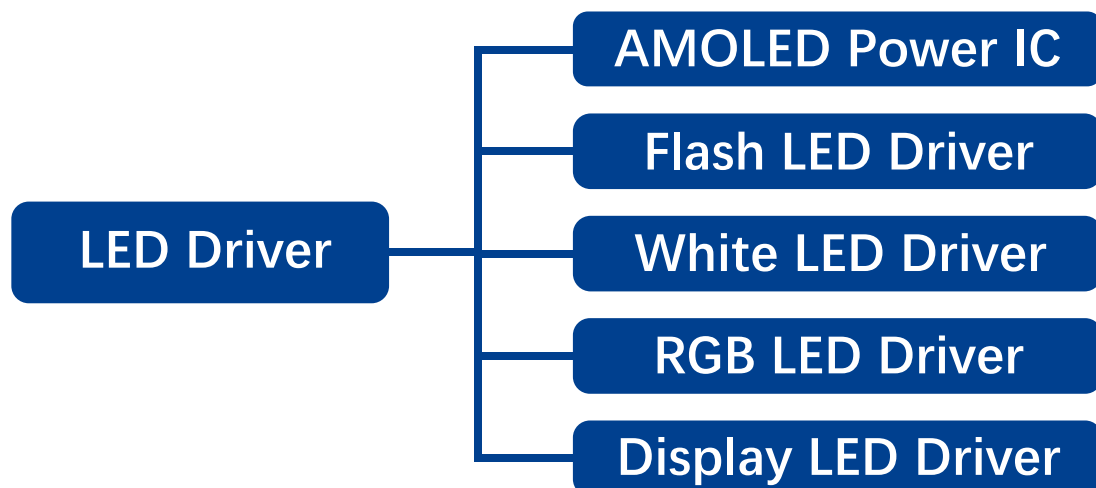


DC-DC Converter

PART No.	Description	Control	V _{IN} Range (V)	V _{OUT} Range (V)	Efficiency (%)	I _{OUT} (mA)	I _Q (uA)	Switch Frequency (KHz)	Package	Cross Reference
*BCT1031	5V 0.2A Buck Converter	PWM	1.8-5.5	1-3.3	95	200	0.4	1400	SOT23-5 DNF2x2-6L	SGM6031 ETA3425
*BCT1721	6.0V 1A Buck Converter	ACOT	2.7-6.0	0.6-3.4	95	1000	33	1000	SOT23-5 SOT23-6 DFN1.6x1.6-6L	
*BCT1722	6.0V 2A Buck Converter	ACOT	2.7-6.0	0.6-3.4	95	2000	33	1000	SOT23-5 SOT23-6 DFN1.6x1.6-6L	RT8097C
BCT1810	5V 1A Buck Converter	PWM	2.5-5.5	0.6-5	95	1000	40	1500	SOT23-5 DFN1.6x1.6-6L	NCP1529 RT8059 TLV62568
BCT1812	5V 1.2A Buck Converter	PWM	2.5-5.5	0.6-5	95	1200	40	1500	SOT23-5	NCP1529 RT8059 SGM6012 SGM6018
BCT1813	5V 1.2A Buck Converter	PWM	2.5-5.5	0.6-5	95	1200	40	1500	SOT23-6	RT8096D TLV62568
BCT1814	5V 2A Buck Converter	PWM	2.7-5.5	0.6-5	95	2000	55	1000	SOT23-5	SY8089 AX3702
BCT1815	5V 2A Buck Converter	PWM	2.7-5.5	0.6-5	95	2000	55	1000	SOT23-6	RT8097D TLV62569
BCT12569A	5V 2A Buck Converter	ACOT	2.7-5.5	0.6-5	95	2000	55	1000	SOT563	TLV62569 MP1605
*BCT1470	17V 2A Buck Converter	ACOT	4.5-17	0.768-6.5	94	2000	380	600	SOT23-6	TPS562208 TPS562201 TPS563240 MP1470
BCT1473	17V 3A Buck Converter	ACOT	4.5-17	0.768-6.5	94	3000	380	600	FCSOT23-6	TPS563201
BCT1477	17V 3A Buck Converter	ACOT	4.5-17	0.768-6.5	94	3000	380	600	FCSOT563	MP1477 MP1660
BCT1451	42V 0.6A Buck Converter	PWM	5-42	0.8-24	95	600	14	1200	SOT23-6	SGM61410 MP2457 MP2460

* Please Contact Our Sales Office For More Details

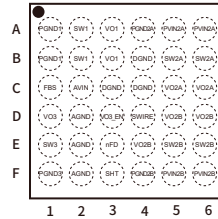




AMOLED Power IC

PART No.	Description	Output Channel	V _{CC} (V)	EL Output Current Max (mA)	AV Output Current Max (mA)	Outputs	Control Interface	Package	Cross Reference
★BCT1838	Triple-output for smart phones and PADS	3	2.5-4.8	1000	150	AVDD:5.5v~7.9v ELVDD:4.6v~5.0v ELVSS:-0.8v~-6.0v	1-wire	WLCSP-36L	

WLCSP-36L



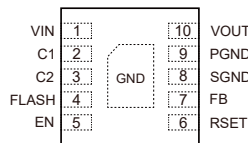
BCT1838

Flash LED Driver

PART No.	Description	V _{IN} (V)	I _Q (mA)	IOUT-Flash Mode (mA)	IOUT-Torch Mode (mA)	VOUT Turn-on Time (uS)	Freq (MHz)	Mode	Efficiency	Package	Cross Reference
★BCT3142	1.1A Buck/Boost Charge Pump LED Driver	2.7-5.5	0.4	1100	400	400	1.9	1X/2X	92%	DFN3x3-10L	AW3641E
BCT3144	1.5A x2 Output Flash LED Driver	2.7-5.5	0.6	1500	748	-	2	FLASH TORCH	85%	WLCSP-12L	LM3644 OCP81373
BCT3146	2.0A x2 Output Flash LED Driver	2.7-5.5	0.6	2000	1000	-	2	FLASH TORCH	85%	WLCSP-12L	LM3644 OCP81375

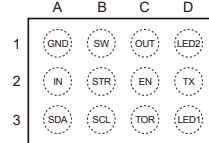
★ Please Contact Our Sales Office For More Details

DFN3x3-10L



BCT3142

WLCSP-12L

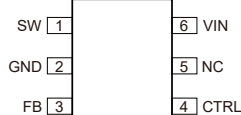


BCT3144/BCT3146

White LED Driver

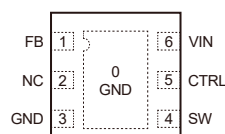
PART No.	Description	Topology	LED Connection	CH	V _{CC} (V)	V _{REF} (mV)	I _{LIM} (mA)	Switching Frequency (KHz)	V _{OV} (V)	Package	Cross Reference
BCT3692B	High Performance, Asynchronous Boost for 10 WLED Driver	BOOST	PWM	1	2.7-5.5	200	1500	1100	38	SOT23-6 TSOT23-6	AP3019A RT4533 RT4526 SGM3752
BCT3756	WLED Driver with PWM Brightness Control in Small Package	BOOST	PWM	1	2.7-5.5	200	1500	1100	38	DFN2x2-6L	TPS61161A TPS61165 RT4503A SGM3756
BCT3401	Backlight Driver	BUCK	PWM/PFM	1	2.5-5.5	100	1800	1100		SOT23-5	LN2401

SOT23-6
TSOT23-6



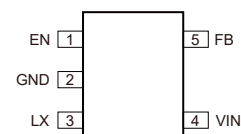
BCT3692B

DFN2x2-6L



BCT3756

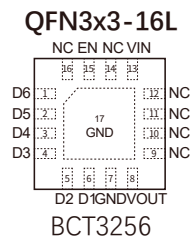
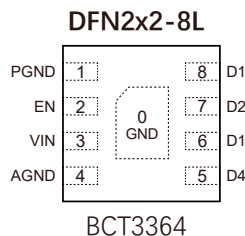
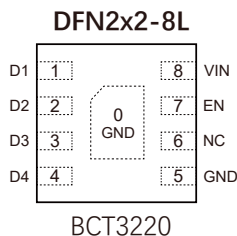
SOT23-5



BCT3401

White LED Driver (Parallel)

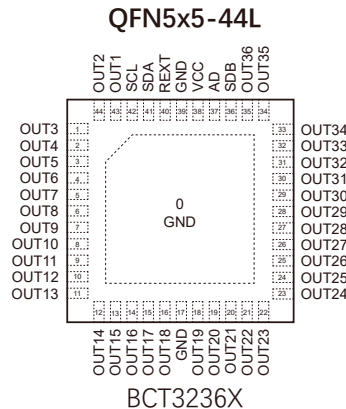
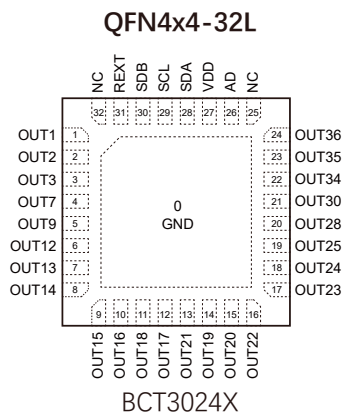
PART No.	Description	LED connection	Vcc (V)	Vdrop (20mA) (mV)	MAX LED Current/CH (mA)	Bright Level	Current Matching	Package	Cross Reference
BCT3220	4 Channel 8 Steps LED Driver	Common-Anode	2.7-5.5	55	20	8	1.50%	DFN2x2-8L	
BCT3364	4 Channel 16 Steps LED Driver	Common-Anode	2.7-5.5	50	20	16	1.50%	DFN2x2-8L	XX9364
BCT3256	6 Channel 16 Steps LED Driver	Common-Anode	2.7-5.5	55	20	16	1.50%	QFN3x3-16L	XX3256 XX9666



RGB LED Driver

PART No.	Description	Channels	MAX LED Current/CH (mA)	MAX Output Current Setting	Bright level	Vcc (V)	Control	Current match	Package	Cross Reference
HOT! *BCT3024X	24ch 256 steps CC LED Driver	24	38	R_EXT	256	2.7-5.5	I2C	-	QFN4x4-32L	LP5012/18 LP5024 AW21012 AW21018
HOT! *BCT3236X	36ch 256 steps CC LED Driver	36	38	R_EXT	256	2.7-5.5	I2C	-	QFN5x5-44L	IS31FL3236A

* X=A/B/C/R/T or combination. A: slop function;B: low power;C: constant current;R: pull up resistor;T:105°C

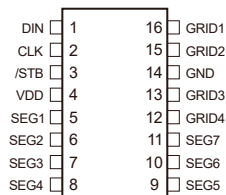


Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (°C)	Dots	MAX LED Current/CH (mA)	Bright level	V _{CC} (V)	Control	Current match	Package	Cross Reference
* BCT3616	7x4 Dots LED Driver	85	28	50	8	3.1-5.5	SPI	±5%	SOP16	XXX1616
* BCT3617	7x3 Dots LED Driver +6x1 keys	85	21	50	8	3.1-5.5	SPI	±5%	SOP16	XXX1617
* BCT3618	7x5 Dots LED Driver +5x1 keys	85	35	50	8	3.1-5.5	SPI	±5%	SOP18	XXX1618
* BCT3620	8x6 Dots LED Driver	85	48	50	8	2.7-5.5	SPI	±5%	SOP20	XXX1620
* BCT3620B	6x7 Dots LED Driver +6x1 keys	85	42	50	8	2.7-5.5	SPI	±5%	SOP20	XXX1620B
* BCT3622	8x5 Dots LED Driver +8x2 keys	85	40	50	8	3.1-5.5	SPI	±5%	SOP20	MC2003

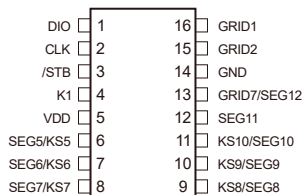
* Please Contact Our Sales Office For More Details

SOP16



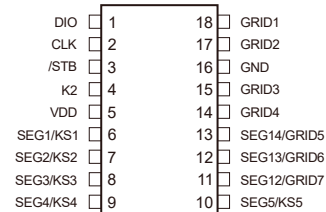
BCT3616

SOP16



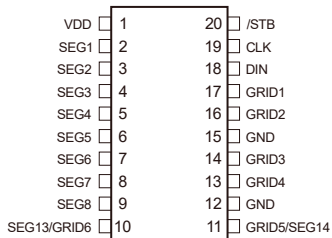
BCT3617

SOP18



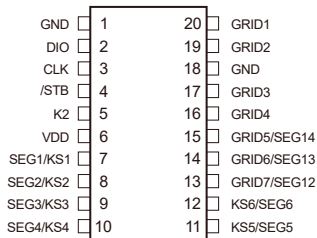
BCT3618

SOP20



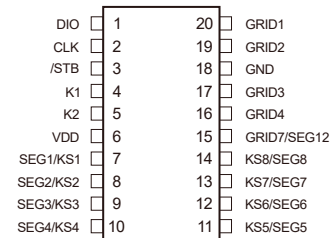
BCT3620

SOP20



BCT3620B

SOP20



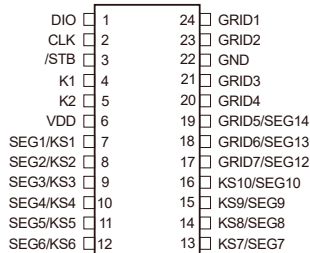
BCT3622

Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (°C)	Dots	MAX LED Current/CH (mA)	Bright level	V _{CC} (V)	Control	Current Match	Package	Cross Reference
BCT3668X	10x7 Dots LED Driver +10x2 keys	85	70	50	8	3.0-5.5	SPI	±5%	SOP24 SSOP24-0.635	XXX1668
BCT1668X	10x7 Dots LED Driver +10x2 keys	105 🔥	70	50	8	3.0-5.5	SPI	±5%	SOP24 SSOP24-0.635	XXX1668
BCT3628X	10x7 Dots LED Driver +10x2 keys	85	70	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1628
BCT1628X	10x7 Dots LED Driver +10x2 keys	105 🔥	70	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1628
BCT3628A	10x7 Dots LED Driver +10x2 keys with slope function	86	70	50	256	3.0-5.5	SPI	±5%	SOP28	XXX1628
BCT3627	10x7 Dots LED Driver +10x2 keys	85	70	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1627
BCT3623	11x7 Dots LED Driver +10x3 keys	85	77	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1623
BCT3624	11x7 Dots LED Driver	85	77	50	8	3.0-5.5	SPI	±5%	SOP24	XXX1624

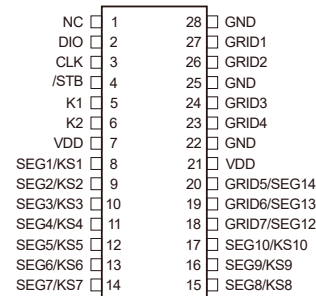
* X=A/B/C/R/T or combination. A: slop function;B: low power;C: constant current;R: pull up resistor;T:105°C

SOP24
SSOP24-0.635



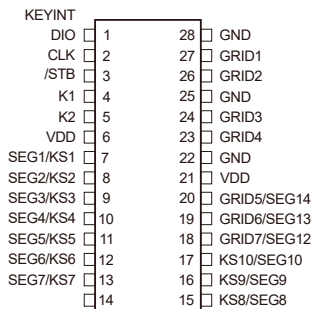
BCT3668X/BCT1668X

SOP28



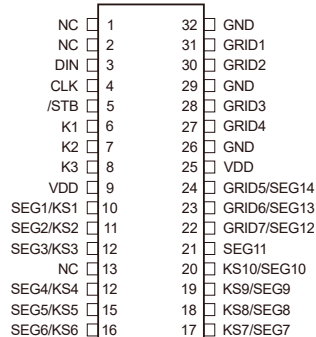
BCT3628X/BCT1628X
BCT3628A

SOP28



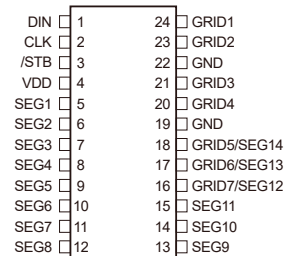
BCT3627

SOP32



BCT3623

SOP24

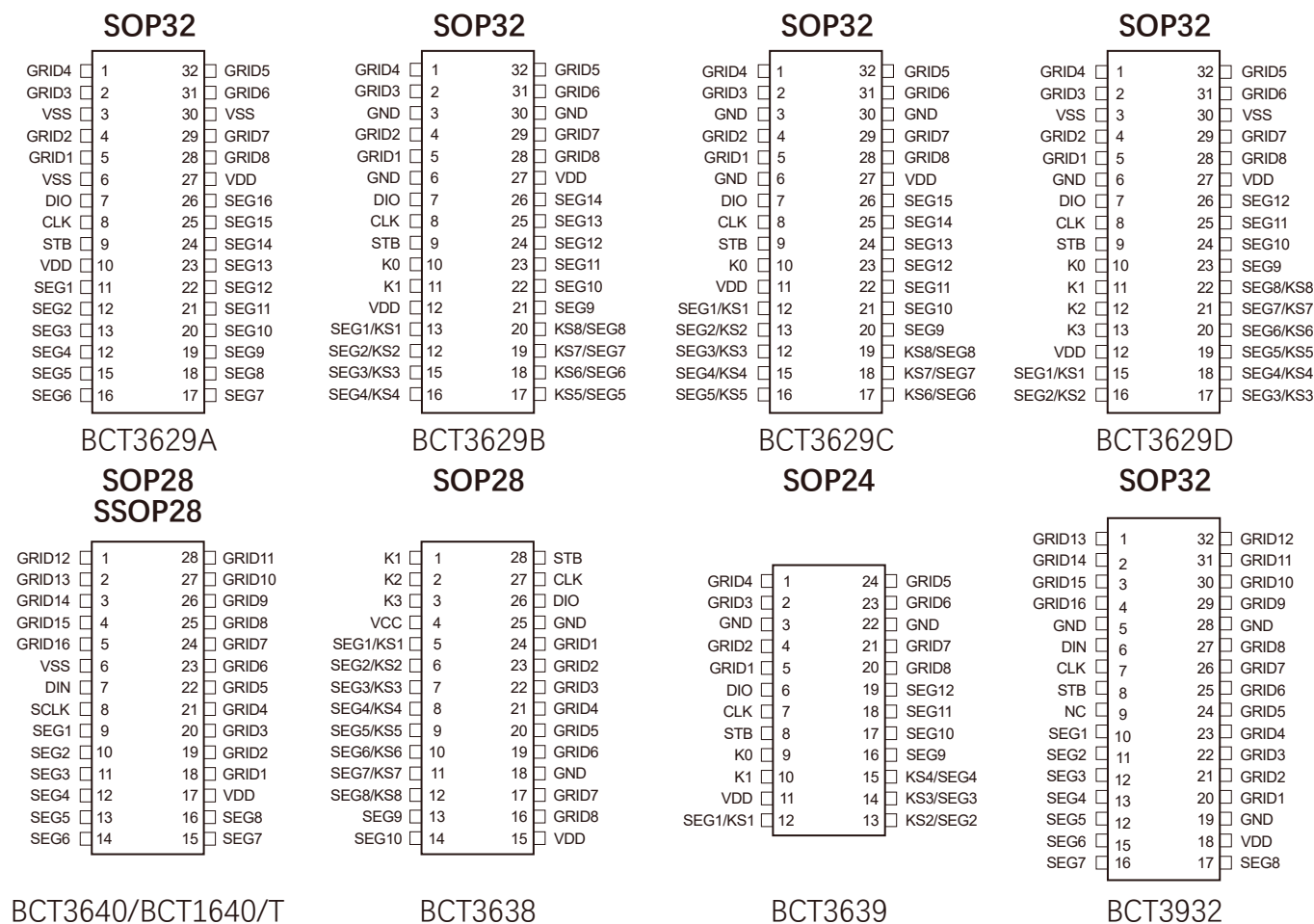


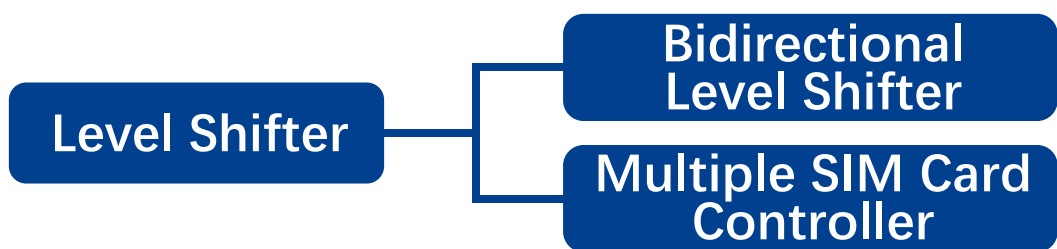
BCT3624

Display LED Driver

PART No.	Description (SEG x GRID)	MAX Operating Temp. (°C)	Dots	MAX LED Current/CH (mA)	Bright level	Vcc (V)	Control	Current match	Package	Cross Reference
BCT3640	8x16 Dots LED Driver	85	128	50	8	3.0-5.5	SPI	-	SOP28 SSOP28	XXX1640
HOT! BCT1640/T	8x16 Dots LED Driver	105 	128	50	8	3.0-5.5	SPI	-	SOP28 SSOP28	XXX1640
* BCT3629A	16x8 Dots LED Driver	85	128	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629A
* BCT3629B	14x8 Dots LED Driver +8x2 keys	85	112	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629B
* BCT3629C	15x8 Dots LED Driver +8x1 keys	85	120	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629C
* BCT3629D	12x8 Dots LED Driver +8x4 keys	85	96	50	8	3.0-5.5	SPI	±5%	SOP32	XXX1629D
* BCT3638	10x8 Dots LED Driver +8x3 keys	85	80	50	8	3.0-5.5	SPI	±5%	SOP28	XXX1638
* BCT3639	8x8 Dots LED Driver +4x2 keys	86	64	50	8	3.0-5.5	SPI	±5%	SOP24	XXX1639
* BCT3932	8x16 Dots LED Driver	85	128	50	8	3.0-5.5	SPI	±5%	SOP32	TA6932

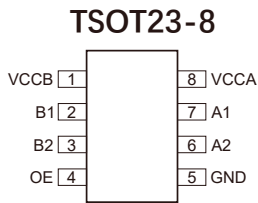
* Please Contact Our Sales Office For More Details



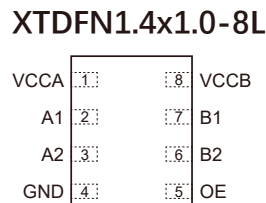


Bidirectional Level Shifter

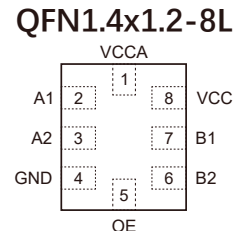
PART No.	Description	Vref_A(Min) (V)	Vref_B(Min) (V)	I _a (uA)	I _o /Continuous Current (mA)	Max Data (Mbps) Rate	No. of Bits	Package	Cross Reference
BCT0102	2Bit Bidirectional Level-Shifting	1.65	2.3	7.1	±50	24	2	TSOT23-8 QFN1.4x1.2-8L XTDFN1.4x1.0-8L	TXS0102 FXMAR2102 SGM4553 SGM4556
BCT0104	4Bit Bidirectional Level-Shifting	1.65	2.3	7.1	±50	24	4	FO-12L TQFN3x3-16L QFN3.5x3.5-14L	TXS0104E FXMAR2104
BCT74AX C8T245	8Bit Bidirectional Level-Shifting	0.8	0.8	7.1	±50	380	8	QFN5.5x3.5-24L	



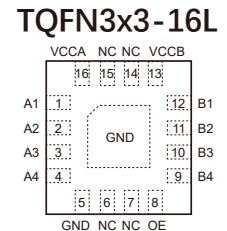
BCT0102



BCT0102

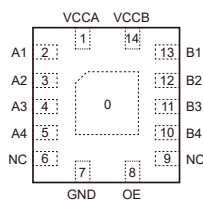


BCT0102



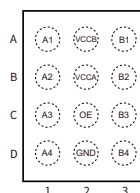
BCT0104

QFN3.5x3.5-14L



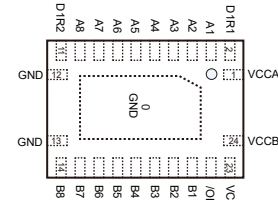
BCT0104

FO-12L



BCT0104

QFN5.5x3.5-24L



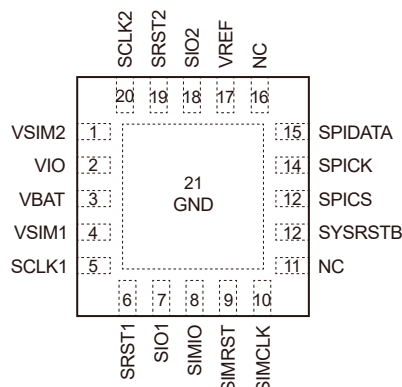
BCT74AXC8T245

Multiple SIM Card Controller

PART No.	Description	V _{IN} (V)	Operating Current (uA)	V _{IO} Operating Voltage (V)	SIM Card Supplies (V)	Output Current Limit (mA)	SCLK Frequency (MHz)	Package	Cross Reference
BCT4302B	Dual SIM Card Controller	2.7-5.5	30	1.65-5.5	1.8/3.0	38	5	QFN3x3-20L	MT6302
*BCT4306	Multipel SIM Card Controller	3.2-4.3	25	1.6-3.2	1.8/3.0	38	5	QFN4x4-28L	MT6306

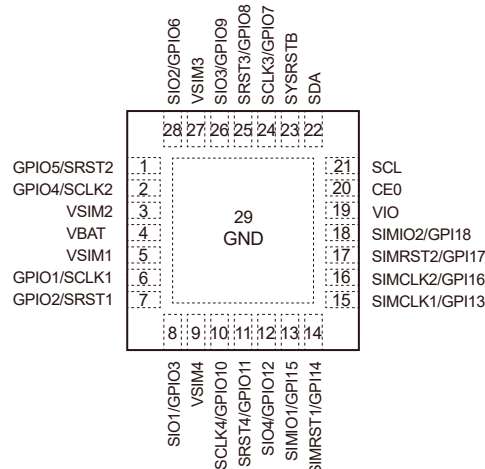
* Please Contact Our Sales Office For More Details

QFN3x3-20L

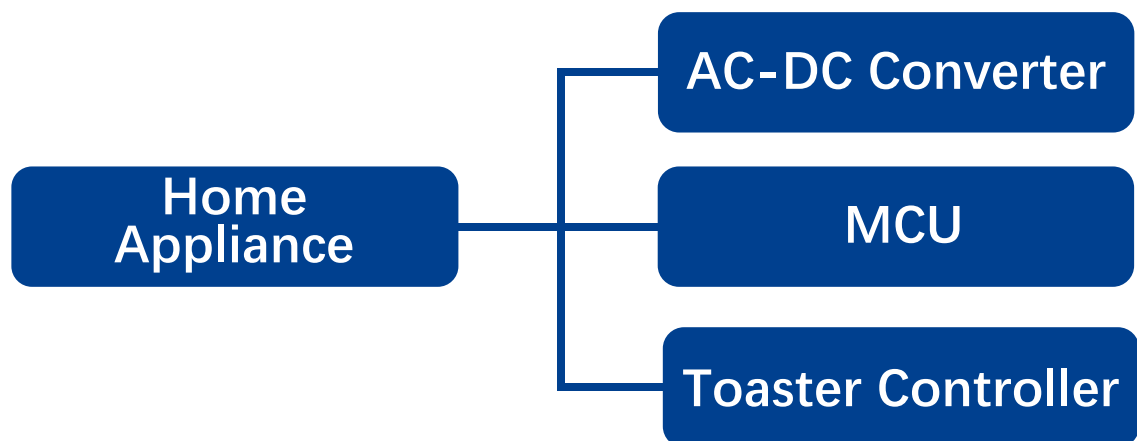


BCT4302B

QFN4x4-28L

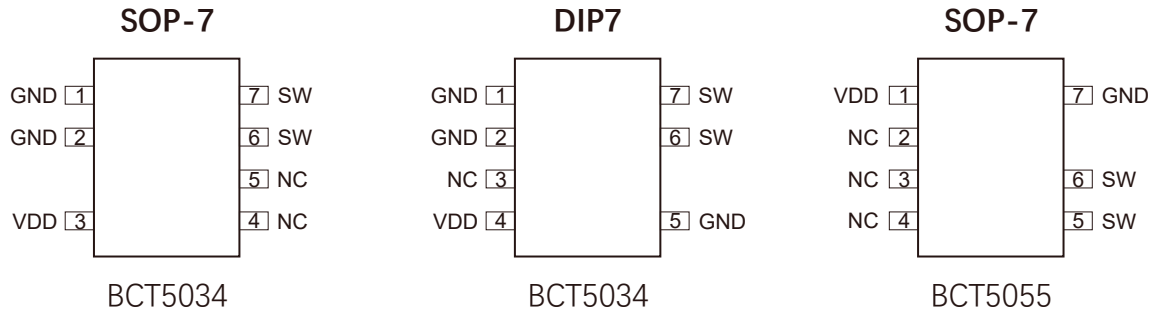


BCT4306



AC-DC Converter

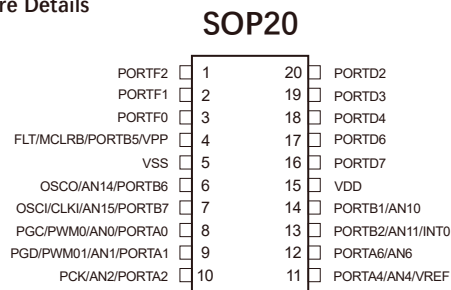
PART No.	Description	SW (V)	R _{DS(on)} (Ω)	V _{DD} (V)	Current Limit (mA)	P _{OUT} (W)	Package
BCT5034	Non-isolation Power Converter	650	10	10-20	750	2.4	DIP7 SOP-7
BCT5055	Non-isolation Power Converter	650	10	10-20	750	2.4	SOP-7



MCU

PART No.	Max Freq	V _{DD} (V)	ROM	RAM	IO	AD	Package
* BCT56083	32M	1.8-5.5	50	25	60	60	SOP20

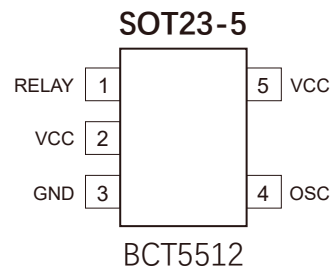
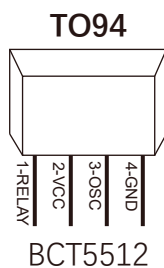
* Please Contact Our Sales Office For More Details



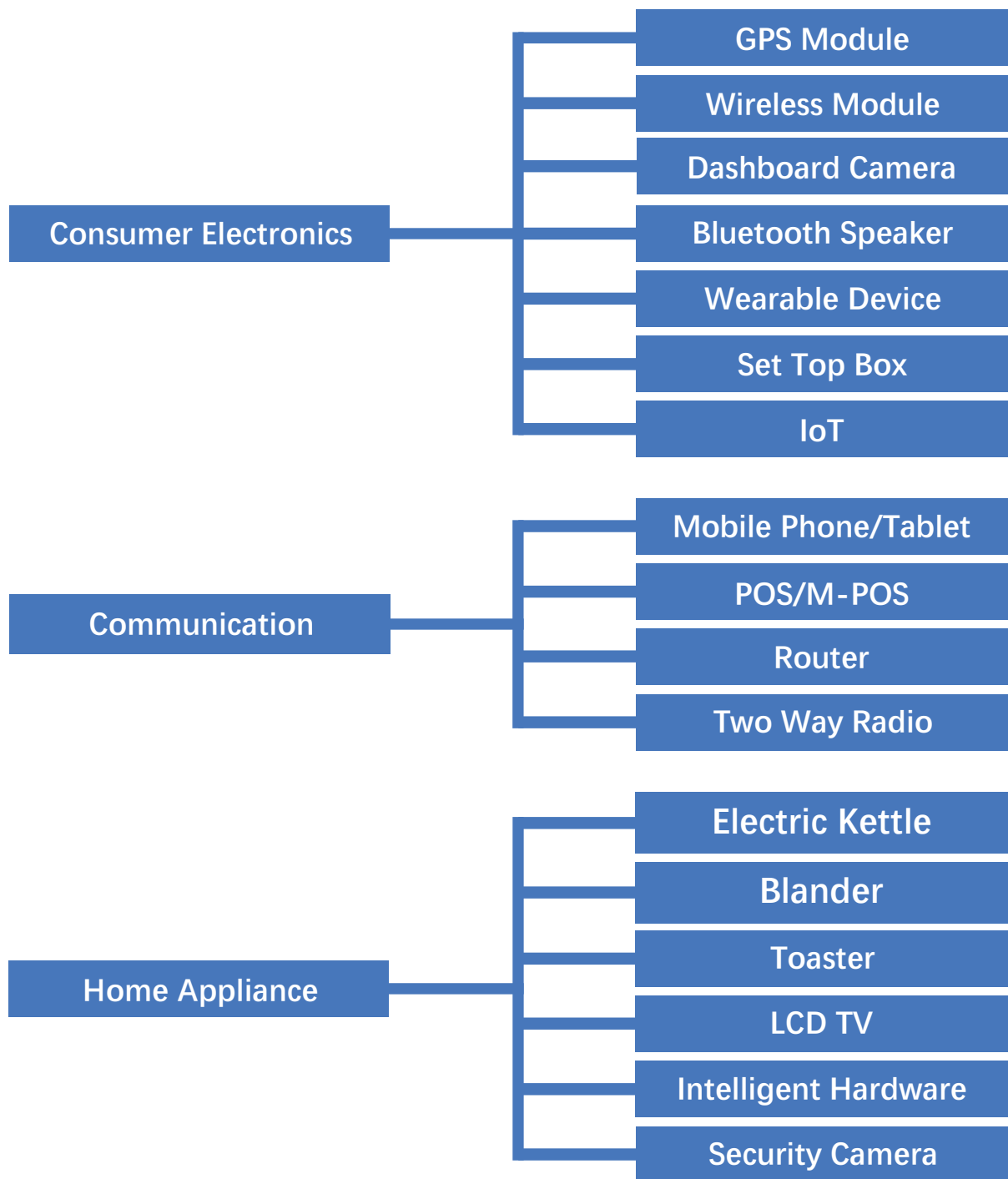
BCT56083

Toaster Controller

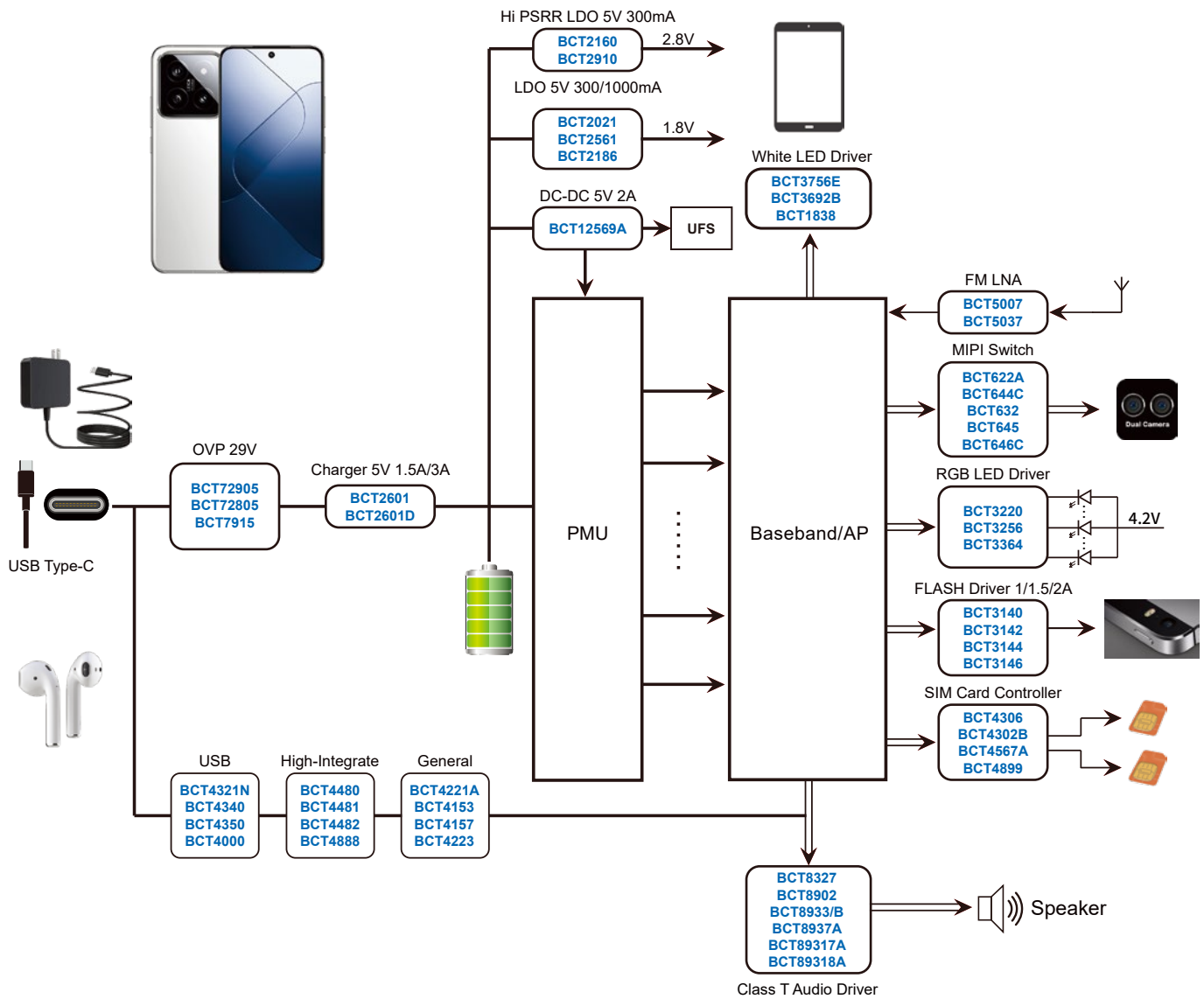
PART No.	Description	Operating voltage (V)	ICC (μA)	IOH (mA)	IOL (mA)	NTC Adjust	No OSC Protect	Defrost	Reheat	Package
BCT5512	Toaster Controller	4.0-5.5	100	-1	0.2	√	√	—	—	TO94 SOT23-5



Broadchip Total Solutions



Mobile Phone Solution



BCT3756E/BCT3692B

250:1 PWM Control LED Driver 38V High Efficiency, Boost WLED Driver with PWM Control

BCT4480

USB Type-C Analog Switch with Protection Function

BCT2021

300mA Low IQ Dropout Regulators

BCT2186

1000mA Ultra Low Dropout Regulators

BCT5007

FM Low Noise Amplifier in Alliance with Internal Antenna

BCT2160/BCT2910

Ultra Low Noise and High PRSS LDO Regulators

BCT644C

2:1 MIPI D-PHY (2.5Gbps) 4-Data Lane Switch

BCT646C

2:1 MIPI D-PHY, C-PHY (4.5Gbps) 4-Data Lane Switch (0.35Pitch)

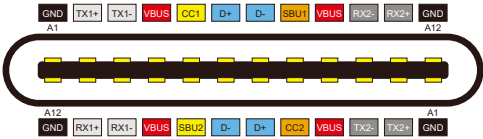
BCT89318A

High Efficiency, Low Noise, Ultralow Distortion, Constant Large Volume Class T Audio Amplifier

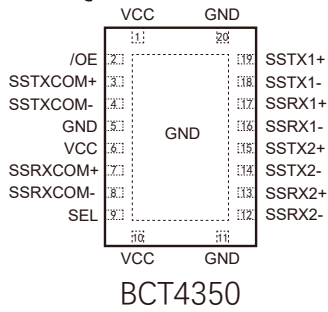
BCT8933B

High Power, Low THD+N Class T Audio Amplifier

Analog Switch



TQFN4.5x2.5-20L



BCT4350 - USB3.2 SuperSpeed 10 Gbps Switch

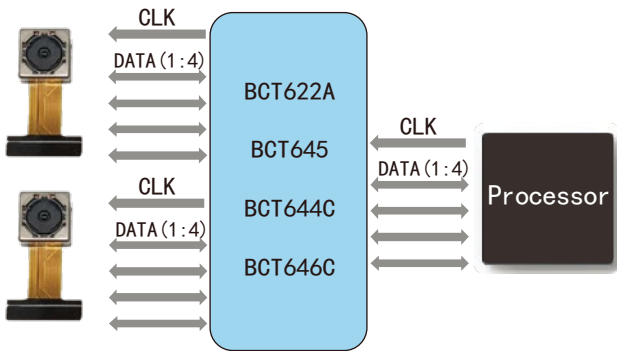
Features

- 10 GHz Typical Bandwidth
- USB 3.2 SuperSpeed 5Gbps and 10 Gbps Switch
- -1.0 dB Typical Insertion Loss at 2.5 GHz
- Wide VDD Operating Range, 1.5 V-5.0 V
- Low Active Power of 12 μ A Typical
- 2 kV HBM ESD Protection
- Low Shutdown Power of < 1 μ A Max
- Small Package, TQFN 4.5x2.5-20L

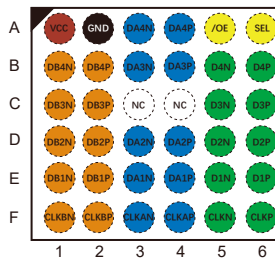
Features

- 10 GHz Typical Bandwidth
- USB 3.2 SuperSpeed 5Gbps and 10 Gbps Switch
- -1.0 dB Typical Insertion Loss at 2.5 GHz
- Wide VDD Operating Range, 1.5 V-5.0 V

- Low Active Power of 12 μ A Typical
- 2 kV HBM ESD Protection
- Low Shutdown Power of $< 1 \mu$ A Max
- Small Package, TQFN 4.5x2.5-20L



FO-36L



BCT646C

BCT646C – 2:1 MIPI D-PHY(4.5Gbps) 4-Data Lane Switch

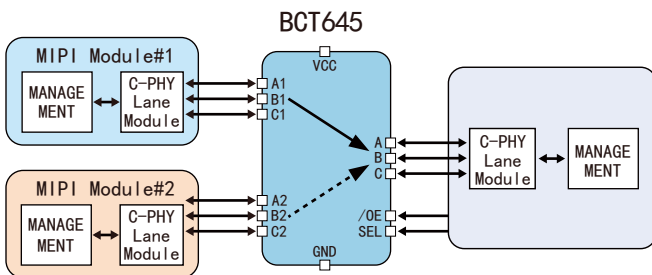
Features

- Singal Types: MIPI D-PHY, C-PHY
- Ron: 6.5Ω Typical HS MIPI / 6.5Ω Typical LP MIPI
- -3dB Bandwidth: 4.5GHz Typical
- ICC: 35uA Maximum
- Con: 1.5pF
- 36-Ball FO-36L Package

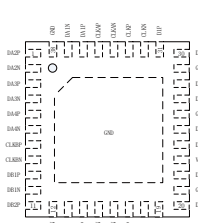
Features

- Singal Types: MIPI D-PHY, C-PHY
- Ron: 6.5Ω Typial HS MIPI / 6.5Ω Typial LP MIPI
- -3dB Bandwidth: 4.5GHz Typical

- ICC: 35uA Maximum
- Con: 1.5pF
- 36-Ball FO-36L Package



QFN4x4-38L



BCT645

BCT645 – 2:1 MIPI C-PHY(2.5Gbps) 4-Data Lana Switch

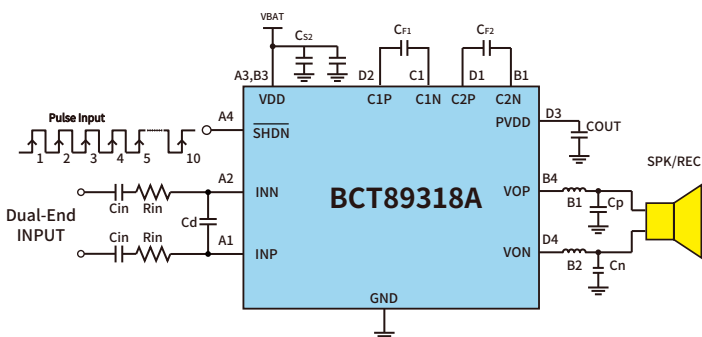
Features

- Singal Types: SPDT(10x)
- Ron: 7.0Ω Typial
- -3dB Bandwidth: 2.5GHz Typical
- Io: 12uA Maximum
- Con: 5.0pF
- QFN4x4-38L Package

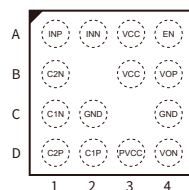
Features

- Singal Types: SPDT(10x)
- Ron: 7.0Ω Typical
- -3dB Bandwidth: 2.5GHz Typical

- I_O : 12uA Maximum
- Con: 5.0pF
- QFN4x4-38L Package



WCSP-14L



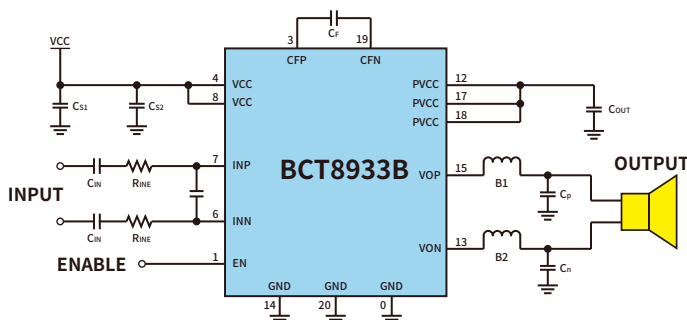
BCT89318A



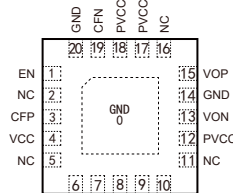
BCT89318A-High efficiency, Low noise Class T Audio Amplifier

Features

- Class T Audio Amplifier
- Low noise: 43μV
- Selectable speaker-protection power level: 2.15W (Max Po-8Ω)
- ESD protection: ±6kV (HBM)
- Receiver: 3V/V, Vn=22uV, THD+N=0.01%
- Excellent pop-click suppression
- One wire pulse control
- Small 0.4mm pitch 1.58mm×1.63mm, WCSP-14L package



QFN3X3-20L



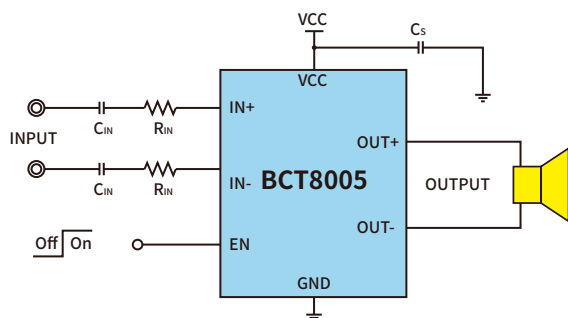
BCT8933B



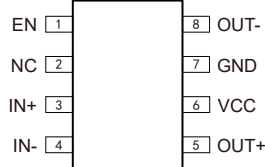
BCT8933B-High Power, Low THD+N Class T Audio Amplifier

Features

- Digital Power Modulation audio algorithm
- 2.0W into 8Ω at 4.2V(10% THD+N)
- Ultra-Low THD+N: 0.03%
- 4 Mode selected by one-wire pulse
- High PSRR:-70dB
- Short Circuit and Thermal Protection
- ±8KV HBM ESD
- Small 3mm×3mm 20-Pin QFN Package



SOP8



BCT8005

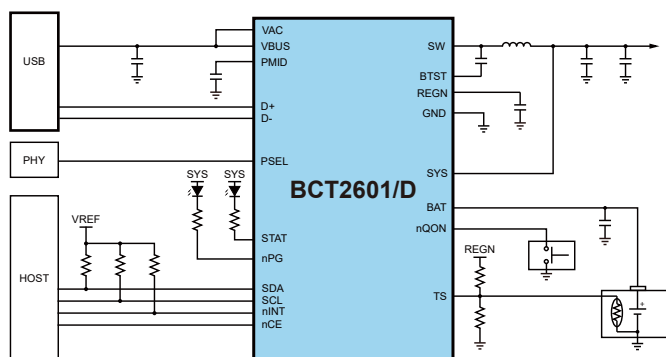


BCT8005-2.8W Mono Filter-less Class-D Audio Amplifier

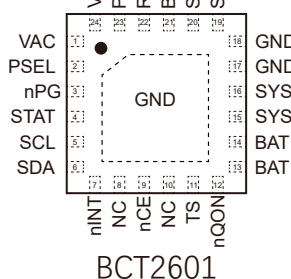
Features

- Supply voltage range: 2.8V to 5.5V
- Support single-ended or differential analog input
- Low Quiescent Current
- Low Output Noise
- Low shut-down current
- Short power-on transient time
- Short-circuit protection
- Over-temperature protection
- Internal pull-low resistor on shut-down pins
- 1.67W/ch into 8Ω loudspeaker
- >3W/ch into 4Ω loudspeaker
- Loudspeaker power within 10% THD+N
- Loudspeaker efficiency
93% @ 8Ω, THD+N=10%, 85% @ 4Ω, THD+N=10%
- Integrated Feedback Resistor of 300kΩ

Charger

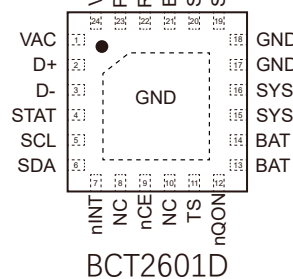


QFN4x4-24L



BCT2601

QFN4x4-24L

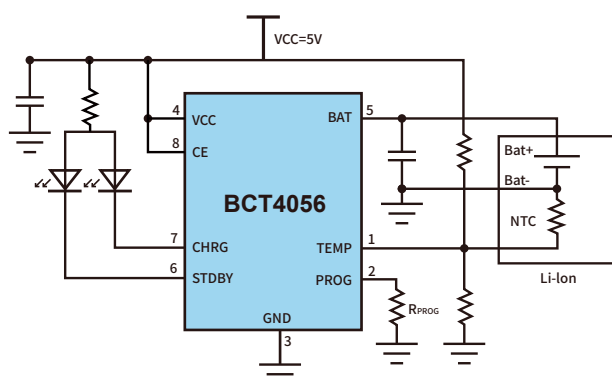


BCT2601D

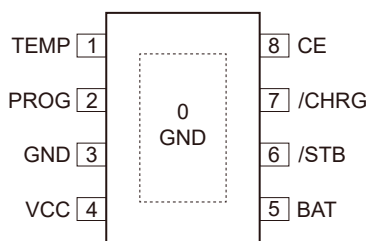
BCT2601/D – 3A Single-cell Li-Ion Switching Charger with USB-OTG Boost

Features

- Auto Detect USB BC1.2,SDP,CDP,DCP and Non-Standard Adaptors
- High Efficiency 1.5MHz Synchronous Buck Charger
- 20V Absolute Maximum Input Voltage Rating
- Boost Converter with up to 1.2A Output
- 3.9V to 13.5V Operating Input Voltage Range
- 91% Charge Efficiency at 2A from 5V Input
- Output Short Circuit Protection



ESOP8



BCT4056

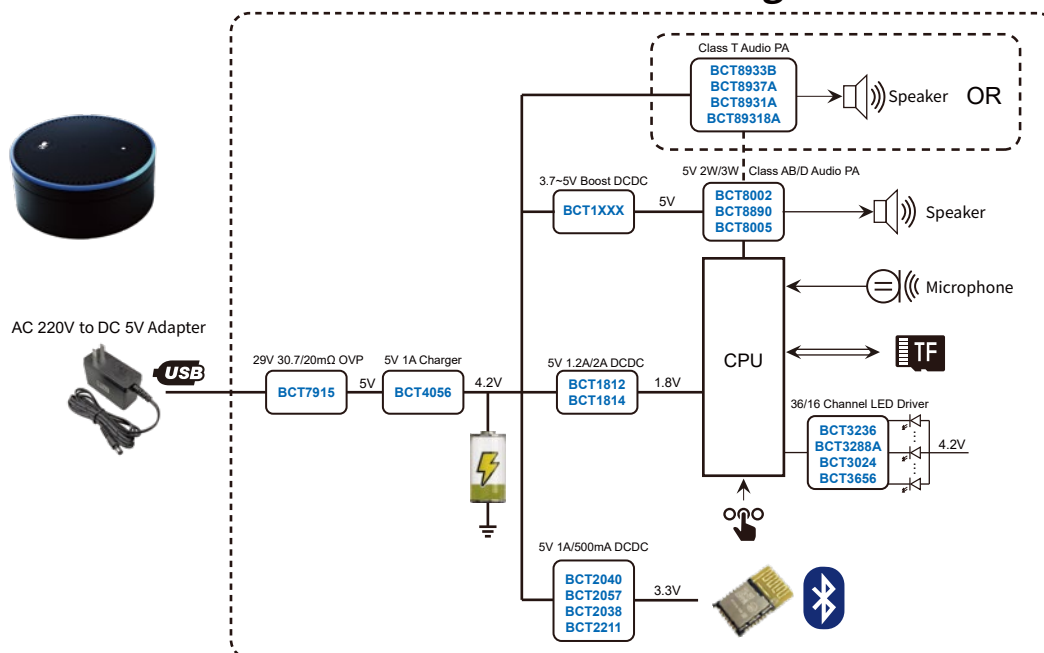


BCT4056 – 1.0A Single-Cell Li-Ion Linear

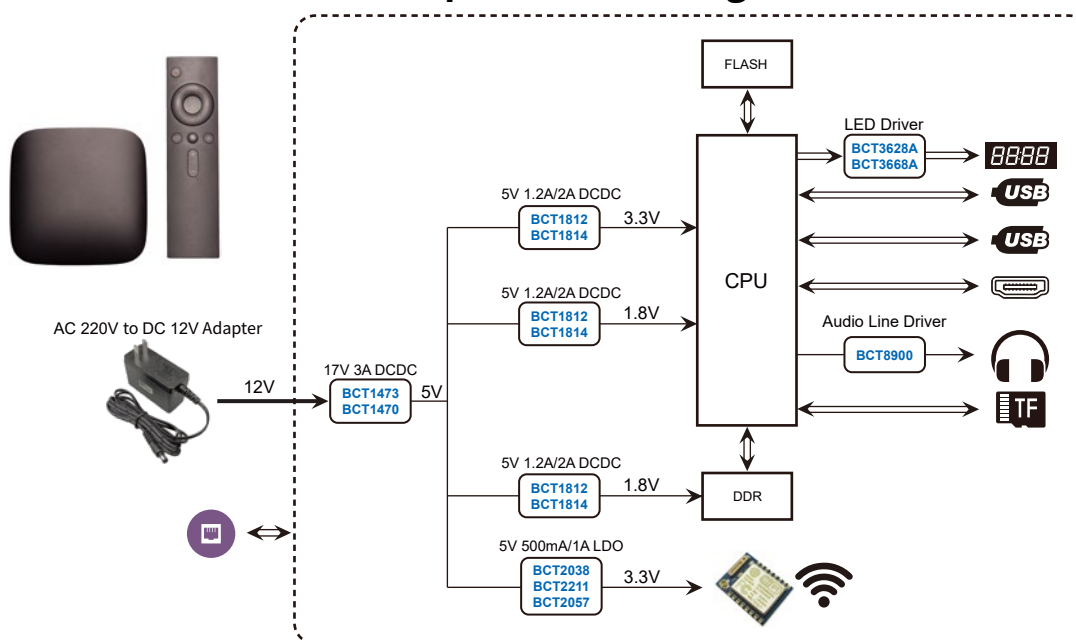
Features

- Integrated Power FETs for Up To 1.0A Charge Current
- Charge Termination Voltage: 4.2V(Typ.), 4.35V(Typ.)
- Standby Current: 55uA(Typ.)
- C/10 Charge Termination
- 6.5V Maximum Operating Input Voltage
- Programmable Charge Current
- Trickle Charge Voltage: 2.9V(Typ.)

Bluetooth Music Box Block Diagram



Set Top Box Block Diagram



BCT1473

3A 600KHz Synchronous Step-Down Converter

BCT1814

5V 2000mA 1MHz Synchronous Step-Down Converter

BCT2038

5V 500mA Low Dropout Linear Regulators

BCT2057

5V 1000mA Low Dropout Linear Regulators

BCT3668A

70 Channels LED Driver With Slope Lighting Mode

BCT3024

24-Channel 256 Steps Constant-Current LED Driver

BCT8002/BCT8002H

Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

BCT8005

Low-Cost, Mono 1.67W(RL=8Ω) Class D Audio Power Amplifier

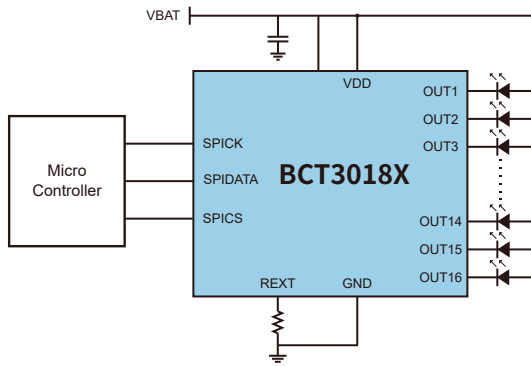
BCT8931A/BCT8937A/BCT89318A

High Efficiency, Low Noise Class T Audio Amplifier

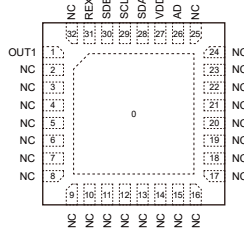
BCT72905

Over-Voltage Protection Load Switch

RGB LED Driver



QFN4x4-32L



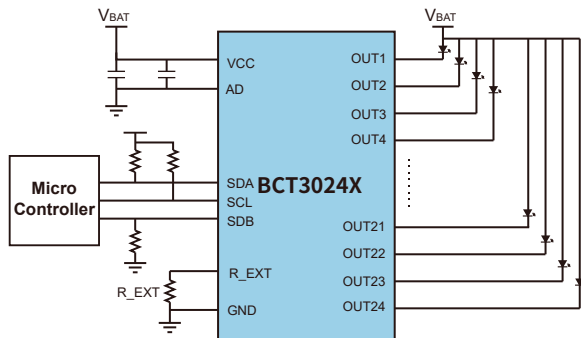
BCT3018X



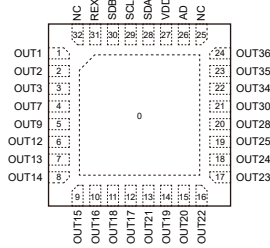
BCT3018X - 16 Channel 64 Steps Constant-Current LED Driver

Features

- 2.7V to 5.5V supply
- SPI interface, Internal reset register
- Modulate LED brightness with 64 levels
- Each channel can be controlled independently
- -40°C to +85°C temperature range
- SSOP24-1.0, SOP24



QFN4x4-32L



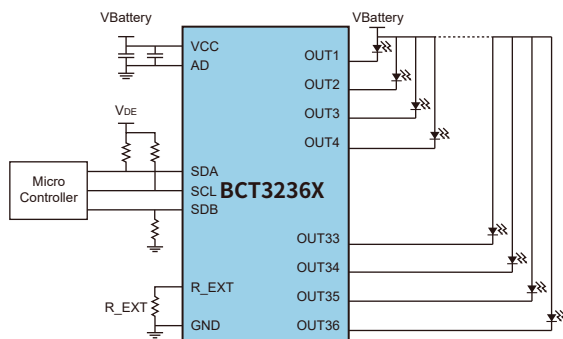
BCT3024X



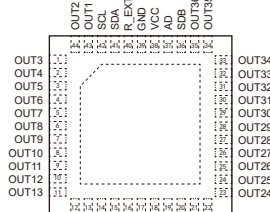
BCT3024X - 24 Channel 256 Steps Constant-Current LED Driver

Features

- 2.7V to 5.5V supply
- I2C interface, automatic address increment function
- Internal reset register
- Modulate LED brightness with 256 levels
- Each channel can be controlled independently
- Each channel can be scaled independently by 1, 1/2, 1/3 and 1/4
- -40°C to +85°C temperature range
- QFN4x4-32L (4mm × 4mm)



QFN5x5-44L



BCT3236X



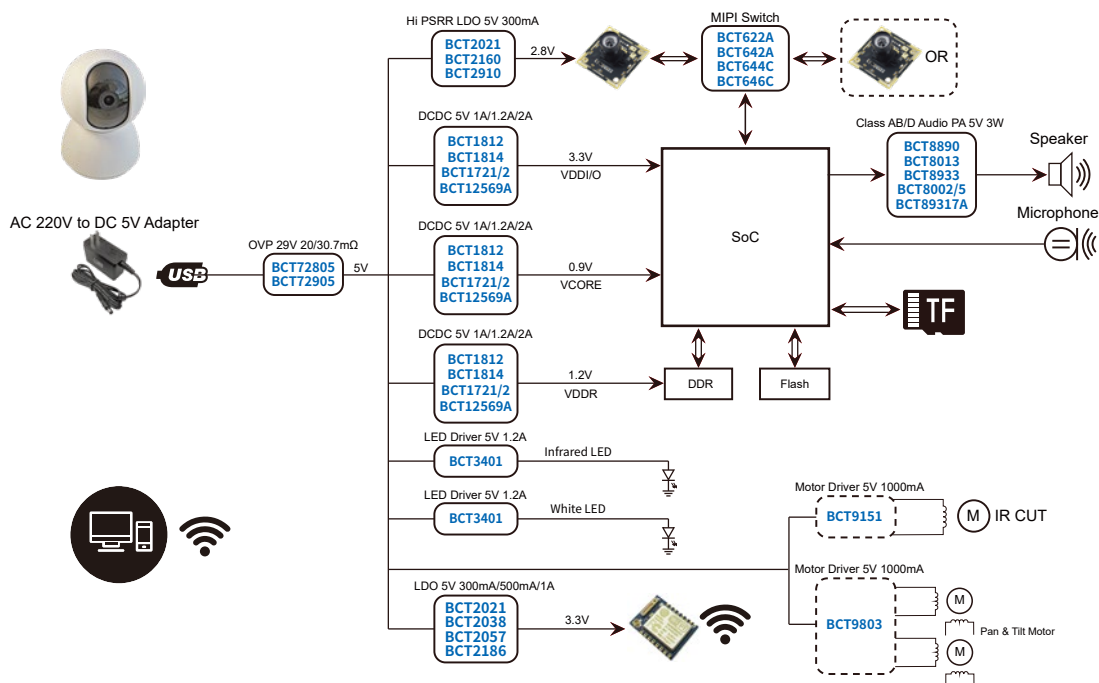
BCT3236X - 36 Channel 256 Steps Constant-Current LED Driver

Features

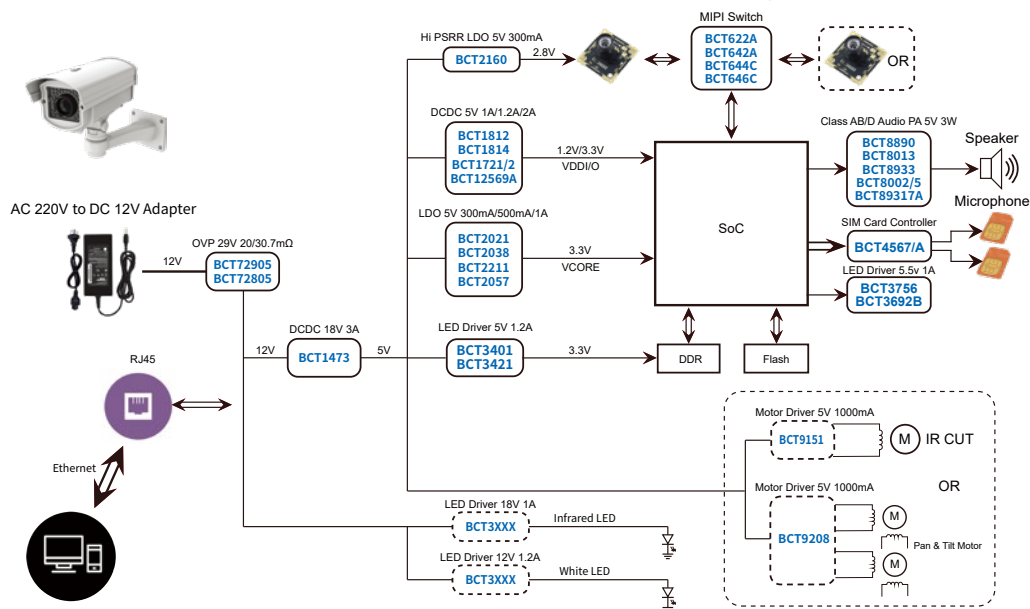
- 2.7V to 5.5V supply
- I2C interface, automatic address increment function
- Internal reset register
- Modulate LED brightness with 256 levels
- Each channel can be controlled independently
- Each channel can be scaled independently by 1, 1/2, 1/3 and 1/4
- -40°C to +85°C temperature range
- QFN5x5-44L (5mm × 5mm)

Security Camera Solution

Smart WiFi Pan&Tilt Camera Block Diagram



Network Camera Block Diagram



BCT1473

3A 600KHz Synchronous Step-Down Converter

BCT2021

5V 300mA Low Dropout RF-Linear Regulators

BCT2038

5V 500mA Low Dropout Linear Regulators

BCT2057

5V 1000mA Low Dropout Linear Regulators

BCT3401

5V 1200mA DC-DC Converters-Backlight Driver

BCT8002/BCT8002H

Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

BCT8005

Low-Cost, Mono 1.67W(RL=8Ω) Class D Audio Power Amplifier

BCT8933/BCT8933B

High Efficiency, Low Noise Class T Audio Amplifier

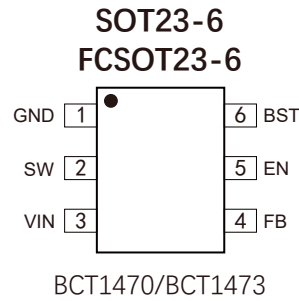
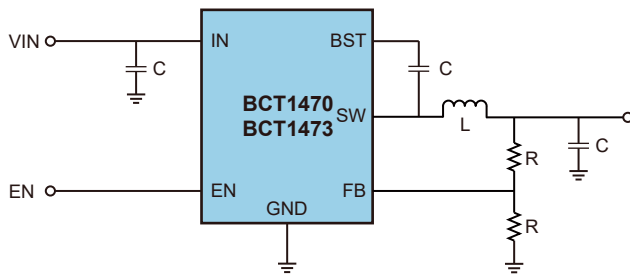
BCT8722

1MHz, 60uA, Rail to Rail I/O CMOS Operational Amplifier

BCT72905

Over-Voltage Protection Load Switch

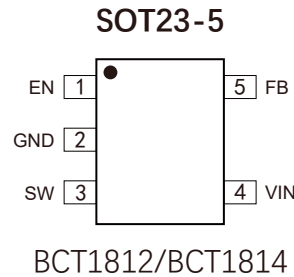
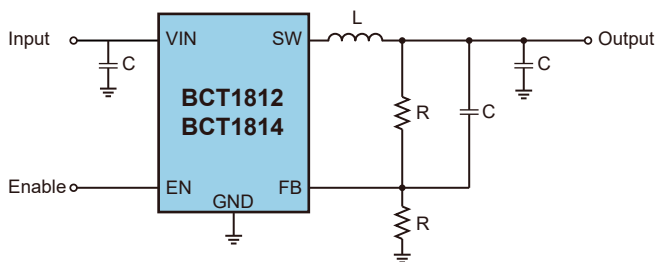
DC-DC/LED Driver



BCT1473 - 17V 3A Peak, 600kHz Synchronous, Step-Down Converter With ACOT Mode

Features

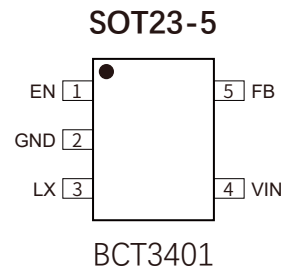
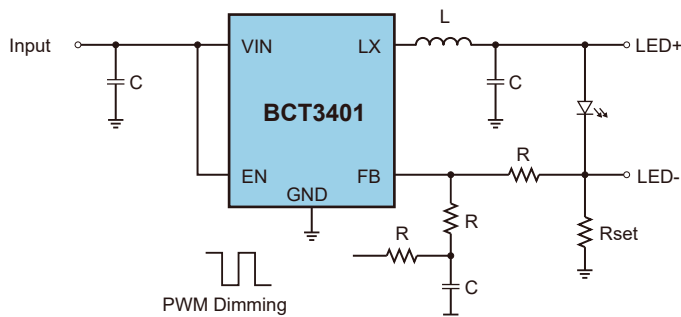
- Wide 4.7V to 17V Operating Input Range
- 90mΩ/50mΩ Internal NFET Efficiency: up to 94%
- ACOT Control with Fast Transient Response
- Pulse-Skip Mode
- Short-circuit Protection
- FCSOT23-5 Packages
- 600kHz Switching Frequency
- Cycle-by-Cycle Current Limit
- Internal Soft Start 1ms
- Startup from Pre-Biased Output Voltage
- Thermal Shutdown



BCT1814 - 5V 2A 1MHz Synchronous Step-Down Converter

Features

- 2.7V~5.5V Input Voltage Range
- 2A Output Current
- 1MHz Switching Frequency Minimizes the External Components
- 100% Duty Cycle in Dropout Operation
- Output Voltage as Low as 0.6V
- No Schottky Diode Required, Internal soft-start
- Output short protection
- Output Auto-Discharge When EN Low
- Thermal protection
- SOT23-5 Packages

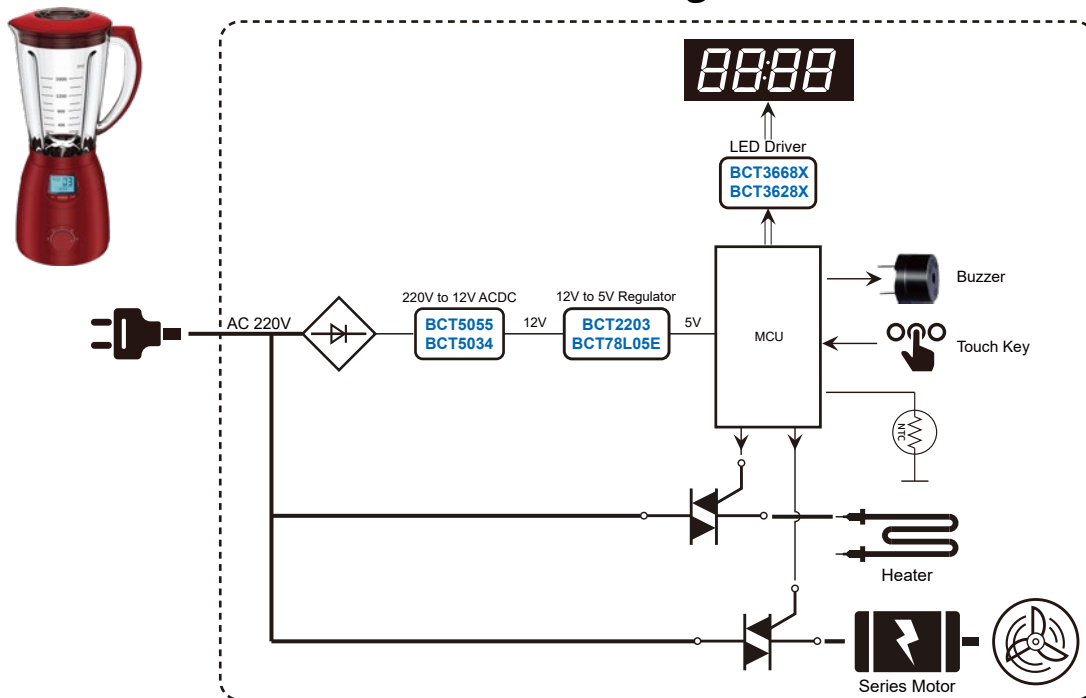


BCT3401 - 5V 1.2A DC-DC Converters-Backlight Driver

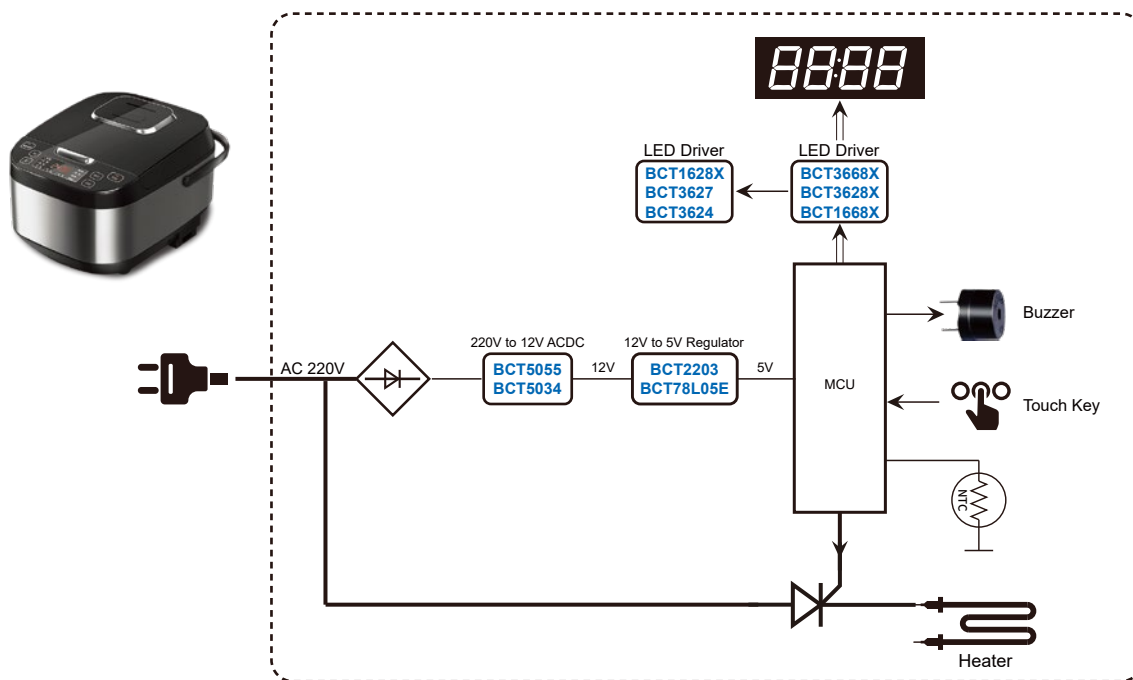
Features

- 2.5V~5.5V Input Voltage Range
- 1.2A Output Current
- 1.5MHz Switching Frequency
- Shutdown Current : <1μA
- Up to 92% efficiency
- 100% Duty Cycle in Dropout Operation
- Internal soft-start
- PWM dimming
- Output short protection, Thermal Protection
- SOT23-5 Packages

Blender Block Diagram



Electric cooker Block Diagram



BCT5034

AC 220V to DC 12V 200mA Non-isolation Converter

BCT78L05E

5V 150mA High Voltage Regulator

BCT2203

150mA High Voltage Regulator

BCT8002/BCT8002H

Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

BCT3668X

70 Channels LED Driver With Slope Lighting Mode

BCT3628X

70 Channels LED Driver With Slope Lighting Mode

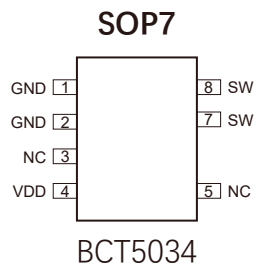
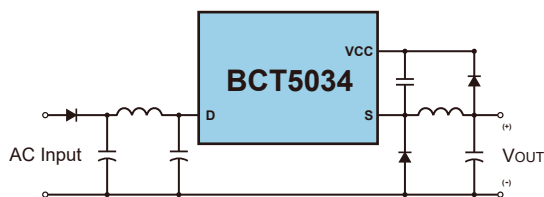
BCT3024

24-Channel 256 Steps Constant-Current LED Driver

BCT1668X

70 Dots LED Driver +20 keys

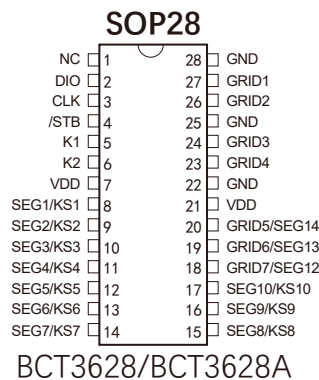
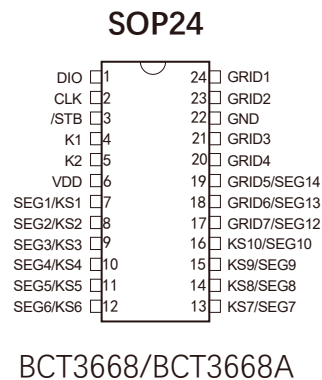
AC-DC/Display Driver/Audio PA



BCT5034 - AC 220V to DC 12V 200mA Non-isolation Converter

Features

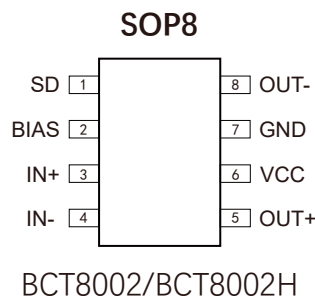
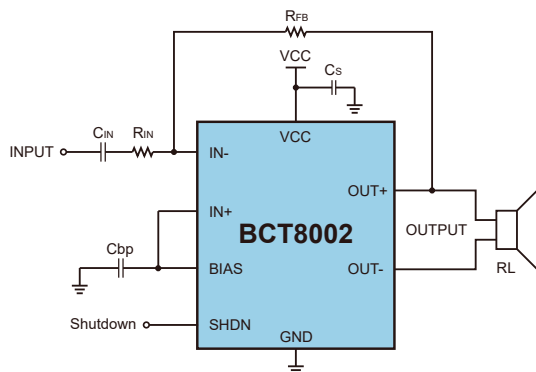
- VCC Inner Loop Feedback Control
- Integrated with 700V Power MOSFET
- Built-in Ultra High Voltage Startup Circuit
- Maximum Switching Frequency at 65 kHz
- Frequency Swapping for EMI improvement
- Green Mode Control for Power Saving
- Internal Thermal Shutdown



BCT3668A/3628A - 70 Channels LED Driver With Slope Lighting Mode

Features

- Wide operation Voltage: 3.0V to 5.5V
- Serial Interface
- 8-Step/256-Step Dimming Circuitry
- Built in OSC generator
- Pulse Segment Current: 50 mA type
- Key scanning: 10 × 2 matrix
- Operation Temperature: -40 to 85°C



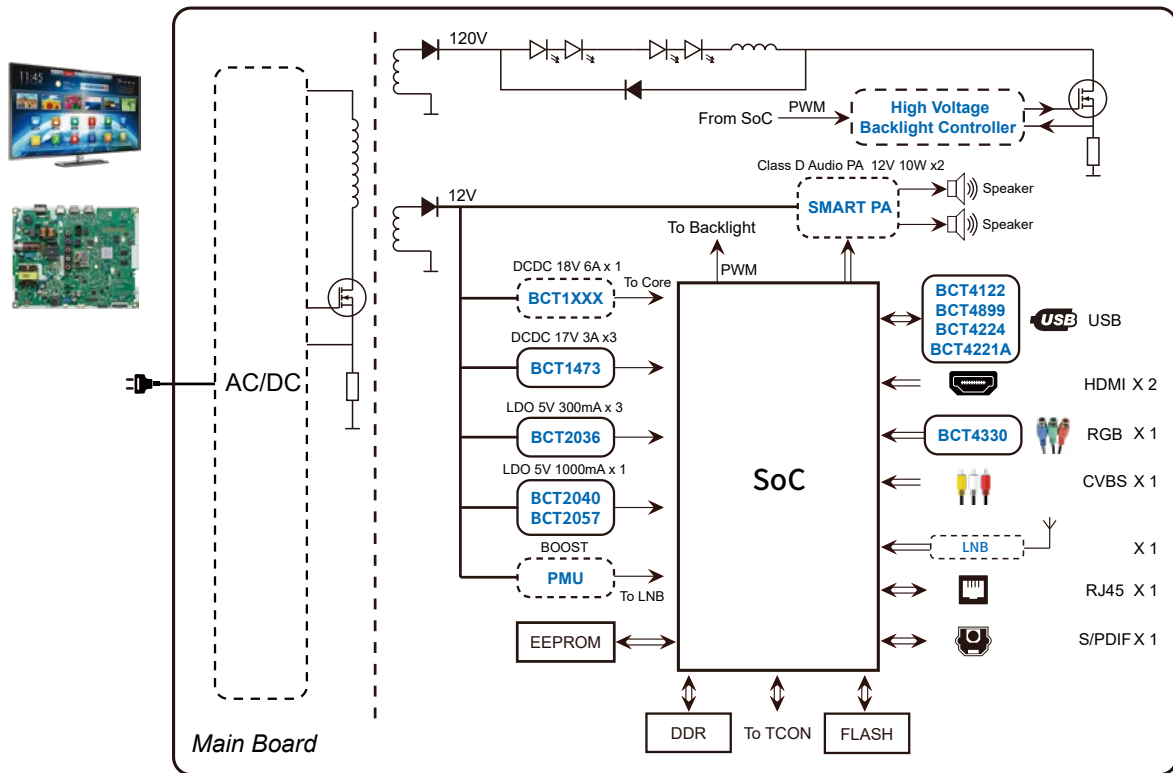
BCT8002 - Low-Cost, Mono 1.5W(RL=8Ω) Class AB Audio Power Amplifier

Features

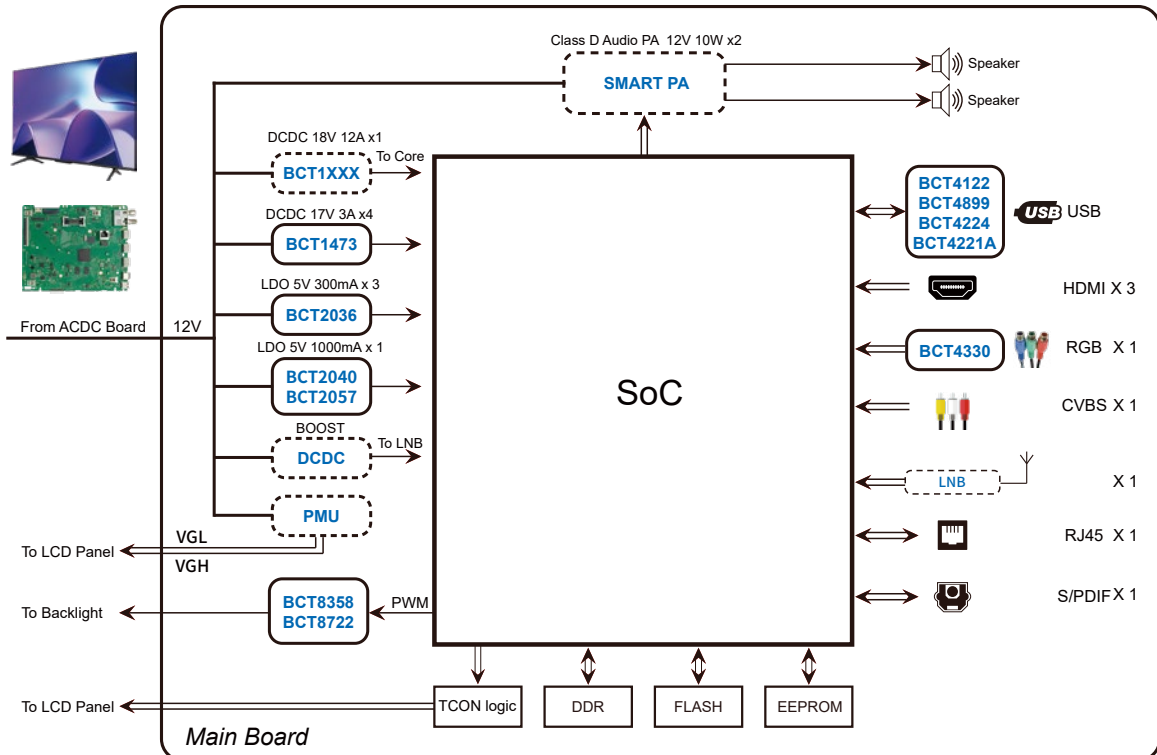
- 2.5V to 5.5V Single-Supply Operation
- PO at 10% THD+N, f=1KHz, VDD=5V
RL=8 Ω 1.5W(Typ.)
RL=4 Ω 2.2W(Typ.)
- Less than 1uA Low-Power Shutdown Mode
- 64dB PSRR at 1KHz
- Temperature Range: -40°C to 85°C
- No Audible Clicks or Pops at Power-Up/Down
- Available in SOP8 package

LCD TV

43" Smart TV MainBoard (CPU+AC/DC+Backlight 3in1) Block Diagram



50" Smart TV MainBoard (CPU+TCON 2in1) Block Diagram



BCT1473

17V 3A 600KHz Synchronous Buck Converter

BCT8358

2 Channel RRIO 1MHz CMOS Amplifier

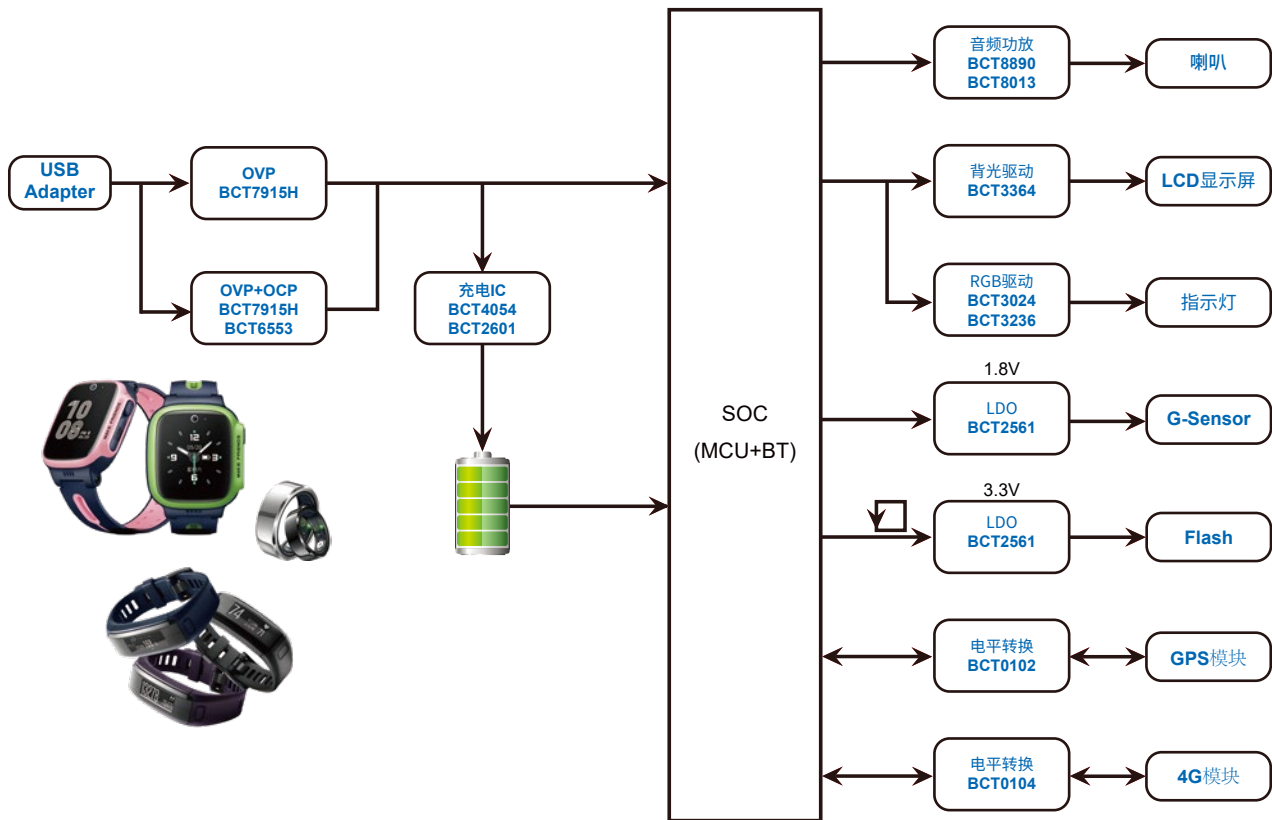
BCT2036

300mA Low IQ Low Dropout Regulators

BCT2040

1000mA Low Dropout Regulators

Wearable Devices



BCT7915H

Over-Voltage Protection Load Switch

BCT6553

Power Distribution Switch

BCT4054

0.7A Li-Ion Linear Charger management

BCT2601

3A Single-Cell Li-Ion Switching Charger with

USB-OTG Boost Regulator

BCT8890

Low-Cost, Mono 2.2W Audio Power Amplifier

BCT8013

Low-Cost, Mono 2.8W Audio Power Amplifier

BCT3364

4 Channel 16 Steps LED Driver

BCT3024

24-Channel 256 steps Constant-Current LED Driver

BCT3236

36-Channel 256 steps Constant-Current LED Driver

BCT2561

2uA IQ, Low Dropout Linear Regulators

Volume Class T Audio Amplifier

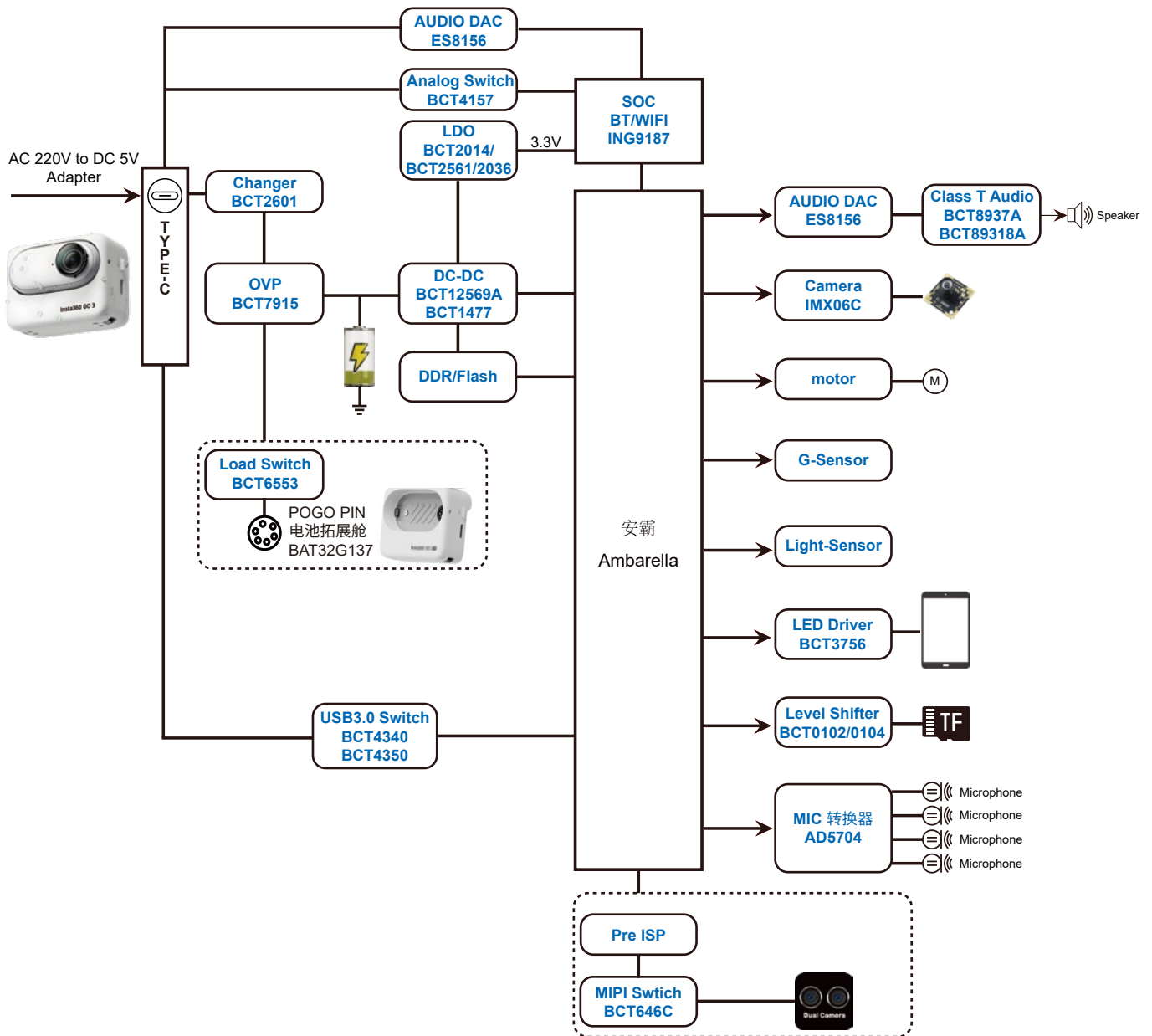
BCT0102

2-Bit Bidirectional Level-Shifting

BCT0104

4-Bit Bidirectional Level-Shifting

Sports Camera



BCT4157

Low-Voltage, 300MHz Analog Switch
Driver with PWM Control

BCT2014

0.7uA IQ Low Dropout Regulators

BCT2036

300mA Low IQ Dropout Regulators

BCT2561

2uA IQ Low Dropout Regulators

BCT12569A

5V 2A Buck Converter

BCT4340/BCT4350

USB3.1 Super Speed 10 Gbps Switch

BCT3756

WLED Driver with PWM Brightness Control in Small Package

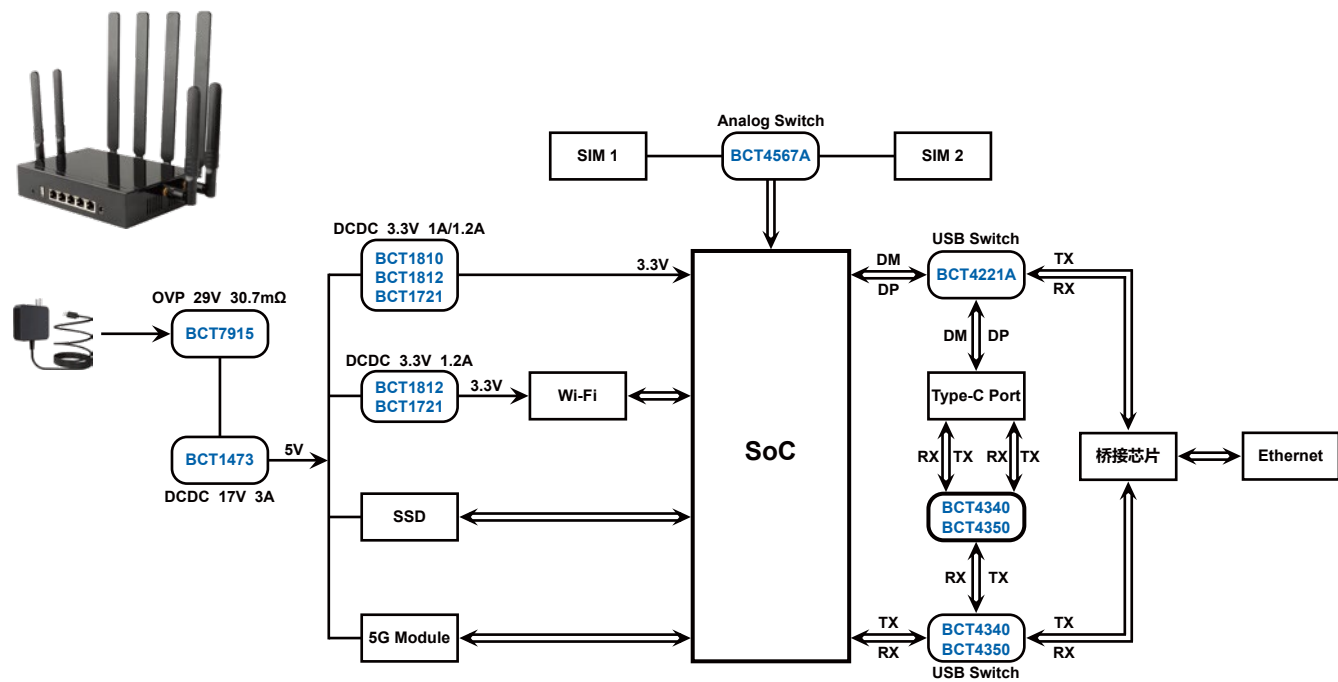
BCT646C

2:1 MIPI D-PHY, C-PHY (4.5Gbps) 4-Data Lane Switch (0.35Pitch)

BCT89318A/BCT8937A

High efficiency, Low noise Class T Audio Amplifier

CPE Block Diagram



BCT1810/BCT1812

5V 1A Buck Converter

BCT1473

17V 3A 600KHz Synchronous Buck Converter

BCT7915

Over-Voltage Protection Load Switch

BCT4567A

Low-Power, Dual SIM Card Analog Switch

BCT4221A

Hi-Speed DPDT Analog Switch

BCT4340/BCT4350

USB3.1 Super Speed 10 Gbps Switch

CONTACT US 联系我们

Shanghai

上海总部

AD: 17th Floor, Block H, WESTLINK, No.2337 Gudai Road, Minhang District, Shanghai, China

上海市闵行区顾戴路2337号维璟中心H幢17层

P.C.: 201199

Tel: 021 - 64472383 64472385

MB: 13391139563

Shenzhen

深圳

AD: Room 1101, Floor 11, Dingxin Building East Block, No. 6008, Xili Liuxian Avenue, Nanshan District, Shenzhen, China

深圳市南山区西丽留仙大道6008号鼎新大厦东座11层1101室

P.C.: 518055

Tel: 13386121579

Hangzhou

杭州

AD: Room 1801~1807, Floor 18, Huaye Building, No. 511, Jianye Road, Binjiang District, Hangzhou, China

杭州市滨江区建业路511号华业大厦18层1801-1807室

P.C.: 310052

Tel: 13956026978

Hong Kong

香港

AD: 19H Maxground Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, Hong Kong, China

Tel: +852 - 25832396

Fax: +852 - 30119876



www.broadchip.com