2025/09

DanaTech Company Introduction

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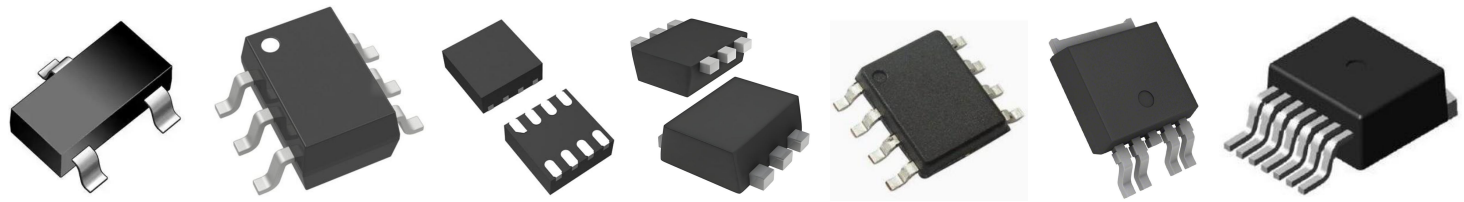
01 Company Profile

DanaTech, founded in 2020, specializes in the industrial, home appliance, and specialized sectors, committed to excellence in chip and system solutions. Headquartered in Shanghai with a sales center in Shenzhen, our team comprises elite professionals from the semiconductor industry. We excel in application development, product management, and possess keen market insights, delivering top-notch pre-sales and after-sales technical services to our customers.

DanaTech specializes in the design, produce, and sales of power management IC and Hall devices. Our products are widely used in various fields such as industrial control, home appliance control, personal consumer devices, networking and communication products, and smart home systems. We are dedicated to providing simple and reliable chips and solutions that help you save space, shorten development cycles, maintain cost competitiveness, and stand out in the market.

02

Power Management IC



DC/DC Power Management Converters

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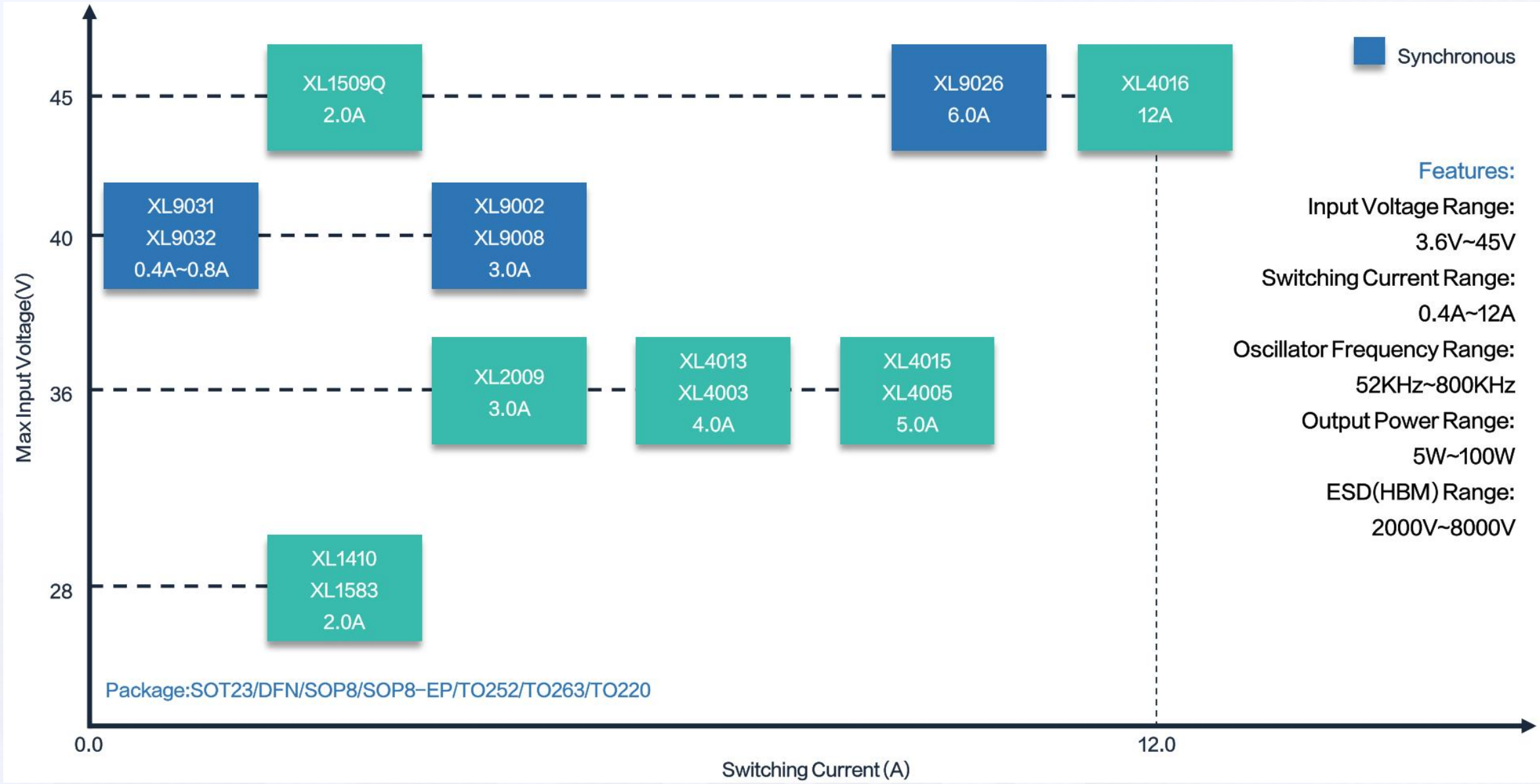
DC-DC (Direct Current to Direct Current) is a type of DC-DC power converter, whose core function is to convert one DC voltage (input) into another DC output of a different voltage (usually either step-down or step-up). It is widely used in power management, consumer electronics, industrial control, and other fields. Unlike LDO (Linear Regulator), DC-DC employs switching regulation technology to achieve efficient energy conversion through high-frequency switching actions and energy storage components (inductors, capacitors).

Typical application example of DC/DC

DC/DC Power Management Buck Converters（Medium Voltage Buck Roadmap）



DC/DC Power Management Buck Converters（ Medium Voltage Buck）

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Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL1509Q	7W	4.5~45V	150KHz	2A	±1.5%	85%	ADJ/5V	1.23V	SOP8-EP	EN AEC-Q100	ACTIVE
XL1508	8W	4.5~45V	150KHz	2A	±3%	88%	ADJ/3.3V/5V	1.23V	SOP8	EN	PREVIEW
XL1509	6W	4.5~40V	150KHz	2A	±3%	85%	ADJ/3.3V/5V/12V	1.23V	SOP8	EN	ACTIVE
XL1507	15W	4.5~40V	150KHz	3A	±3%	85%	ADJ/5V	1.23V	TO252-5L	EN	ACTIVE
XL2596S/T	50W	4.5~40V	150KHz	3A	±3%	85%	ADJ/3.3V/5V/12V	1.23V	TO263-5L TO220-5L	EN	ACTIVE
XL2576S/T	50W	4.5~40V	52KHz	3A	±3%	85%	ADJ/5V/12V	1.23V	TO263-5L TO220-5L	EN	ACTIVE
XL1410	8W	3.6~28V	380KHz	2A	±3%	93%	ADJ	1.222V	SOP8	EN	ACTIVE
XL1583	12W	3.6~28V	380KHz	3A	±3%	93%	ADJ	1.222V	SOP8	EN	ACTIVE
XL1513	8W	3.6~28V	380KHz	2A	±3%	93%	ADJ	0.8V	SOP8	EN	ACTIVE
XL1530	12W	3.6~28V	380KHz	3A	±3%	93%	ADJ	0.8V	SOP8	EN	ACTIVE

DC/DC Power Management Buck Converters（Medium Voltage Buck）

DanaTech

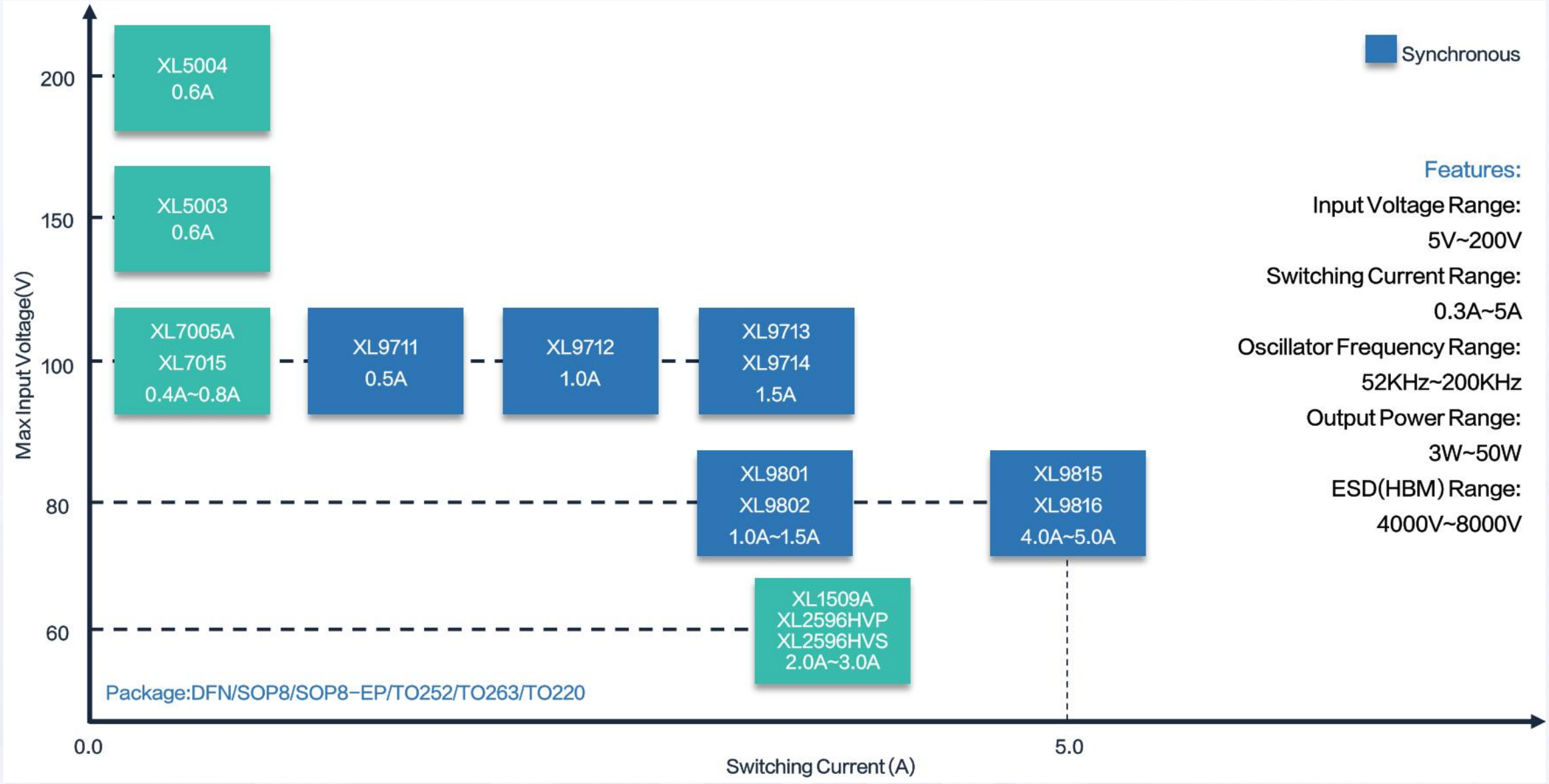
Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL4003	20W	5~32V	300KHz	4A	±3%	90%	ADJ	0.8V	TO252-5L	EN	ACTIVE
XL4005	100W	5~32V	300KHz	5A	±3%	90%	ADJ	0.8V	TO263-5L	EN	ACTIVE
XL4013	20W	8~36V	180KHz	4A	±2%	94%	ADJ	1.25V	TO252-5L		ACTIVE
XL4015	100W	8~36V	180KHz	5A	±2%	94%	ADJ	1.25V	TO263-5L	High Power	ACTIVE
XL4016	100W	8~40V	180KHz	12A	±2%	94%	ADJ	1.25V	TO220-5L	High Power	ACTIVE
XL2009	12W	8~36V	180KHz	3A	±2%	92%	ADJ	1.25V	SOP8	CC&CV	ACTIVE
XL2001	10W	8~45V	150KHz	1.8A	±2%	92%	5V	–	SOP8	Fixed 5V Output short-circuit shutdown	ACTIVE
XL2011	12W	8~45V	150KHz	2.1A	±2%	92%	5V	–	SOP8	Fixed 5V Output short-circuit shutdown	ACTIVE
XL2012	12W	8~40V	150KHz	2.4A	±2%	92%	5V	–	SOP8	Fixed 5V Output short-circuit shutdown	ACTIVE
XL2013	16W	8~40V	150KHz	3.2A	±2%	92%	5V	–	TO252-5L	Fixed 5V Output short-circuit shutdown	ACTIVE
XL4001	8W	4.5~40V	150KHz	2A	±2%	83%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL4101	20W	4.5~40V	150KHz	3A	±3%	80%	ADJ	1.25V	TO263-5L	CC&CV	ACTIVE
XL4201	20W	8~40V	150KHz	3A	±1.5%	92%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL4301	20W	8~40V	180KHz	3A	±1.5%	92%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL4501	50W	8~36V	150KHz	5A	±1.5%	92%	ADJ	1.25V	TO263-5L	CC&CV	ACTIVE

DC/DC Power Management Buck Converters（Medium Voltage Synchronous Buck）

DanaTech

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9021	10W	5~36V	150KHz	2.5A	±2%	95%	ADJ	1.25V	SOP8	EN	ACTIVE
XL9022	15W	5~45V	150KHz	2.5A	±2%	95%	ADJ	1.25V	SOP8-EP	EN	ACTIVE
XL9006	8W	5~40V	200KHz	0.6A	±2%	96%	ADJ/5V	1.25V	SOT23-6	EN	PREVIEW
XL9007	10W	5~40V	200KHz	2A	±2%	96%	ADJ/5V	1.25V	DFN3*3-8	EN	PREVIEW
XL9008	15W	5~40V	200KHz	3A	±2%	96%	ADJ/5V	1.25V	SOP8-EP	EN	PREVIEW
XL9023	30W	5~40V	120KHz	4A	±2%	95%	ADJ	1.25V	TO252-5L	High Power	ACTIVE
XL9025	50W	5~40V	120KHz	4A	±2%	96%	ADJ	1.25V	TO263-5L	High Power	ACTIVE
XL9026	80W	5~45V	120KHz	6A	±2%	96%	ADJ	1.25V	TO220-5L	High Power	ACTIVE
XL9027	50W	5~45V	120KHz	4A	±2%	96%	ADJ	1.25V	TO263-7L	CC&CV High Power	ACTIVE
XL9028	60W	5~45V	120KHz	6A	±2%	96%	ADJ	1.25V	TO263-7L	CC&CV High Power	ACTIVE
XL9031	8W	3.6~40V	800KHz	0.4A	±2%	96%	ADJ	0.8V	SOT23-6	EN	PREVIEW
XL9032	10W	3.6~40V	800KHz	0.8A	±2%	96%	ADJ	0.8V	DFN3*3-8	EN	PREVIEW
XL9004	12W	5~45V	200KHz	2A	±2%	95%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL9005	15W	5~45V	200KHz	3A	±2%	95%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL9009	12W	5~45V	200KHz	2A	±2%	93%	ADJ	1.25V	SOP8-EP	EN CC&CV	ACTIVE
XL9010	15W	5~45V	200KHz	3A	±2%	94%	ADJ	1.25V	SOP8-EP	EN CC&CV	ACTIVE

DC/DC Power Management Buck Converters（High Voltage Buck Roadmap）



DC/DC Power Management Buck Converters（High Voltage Buck）

DanaTech

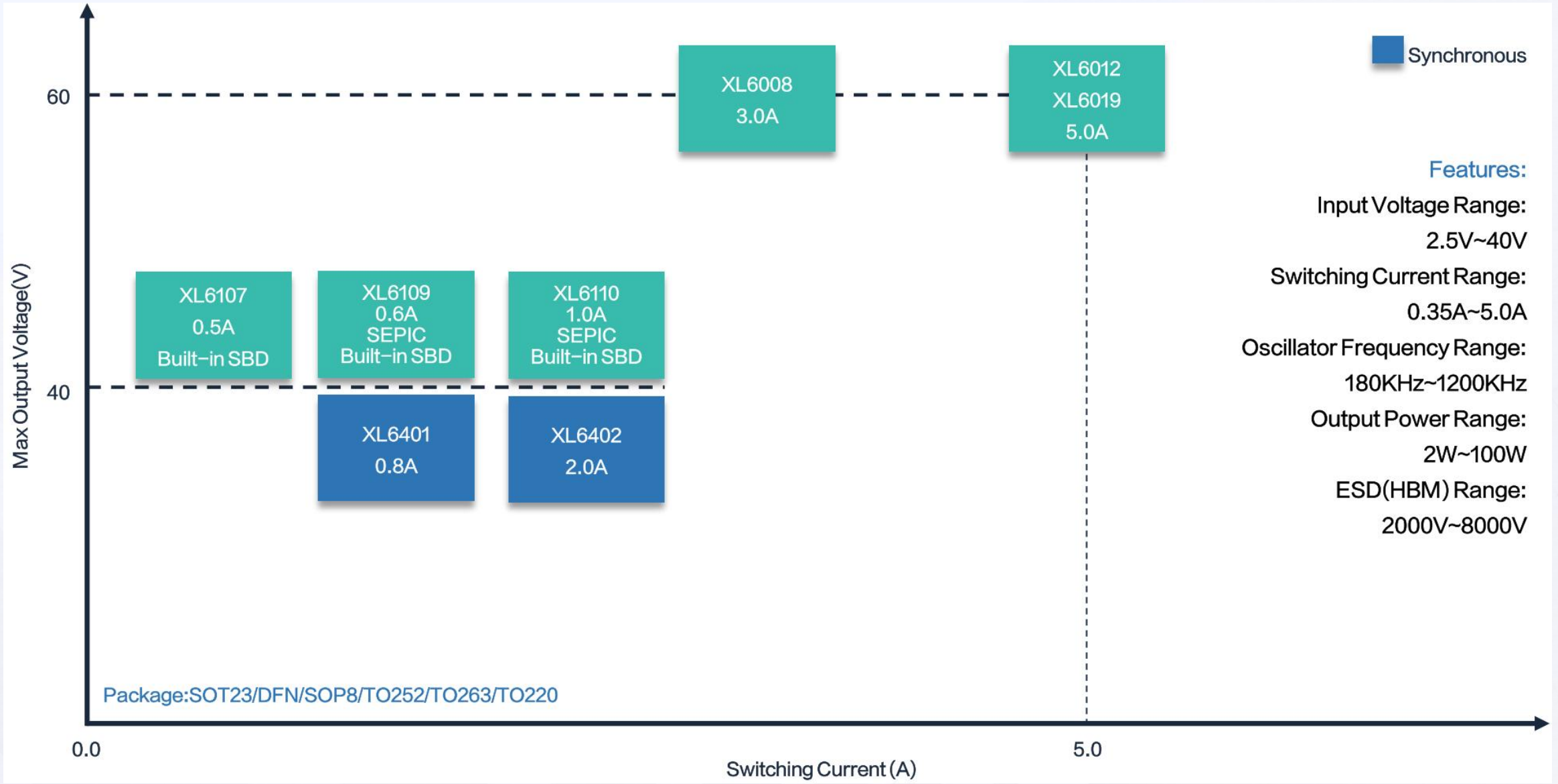
Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL7005A	5W	5~100V	150KHz	0.4A	±2%	87%	ADJ	1.25V	SOP8-EP	EN	ACTIVE
XL7015	8W	5~100V	150KHz	0.8A	±2%	87%	ADJ	1.25V	TO252-5L	EN	ACTIVE
XL1509A	8W	5~60V	150KHz	2A	±1.5%	87%	ADJ/3.3V/5V/12V	1.23V	SOP8	EN	ACTIVE
XL1507A	20W	5~60V	150KHz	3A	±1.5%	87%	ADJ/5V	1.23V	TO252-5L	EN	ACTIVE
XL2596HVT	50W	5~60V	150KHz	3A	±1.5%	87%	ADJ/3.3V/5V/12V	1.23V	TO220-5L	EN	ACTIVE
XL2596HVS	30W	5~60V	150KHz	3A	±1.5%	87%	ADJ/3.3V/5V/12V	1.23V	TO263-5L	EN	ACTIVE
XL2596HVP	10W	5~60V	150KHz	2A	±1.5%	87%	ADJ/3.3V/5V/12V	1.23V	SOP8-EP	EN	ACTIVE
XL2576HVT	50W	5~60V	52KHz	3A	±1.5%	87%	ADJ/5V/12V	1.23V	TO220-5L	EN	ACTIVE
XL2576HVS	30W	5~60V	52KHz	3A	±1.5%	87%	ADJ/5V/12V	1.23V	TO263-5L	EN	ACTIVE
XL7025	5W	10~100V	150KHz	0.6A	±2%	89%	ADJ	1.25V	TO252-5L	CC&CV	ACTIVE
XL7026	5W	12~100V	150KHz	0.6A	±2%	93%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL7035	20W	10~100V	150KHz	1A	±2%	89%	ADJ	1.25V	TO263-5L	CC&CV	ACTIVE
XL7045	3W	10~100V	100KHz	0.3A	±2%	84%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL7046	8W	8~100V	100KHz	1A	±2%	95%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL7056	20W	8~100V	100KHz	2.1A	±2%	95%	ADJ	1.25V	TO263-7L	CC&CV	ACTIVE

DC/DC Power Management Buck Converters（High Voltage Synchronous Buck）

DanaTech

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9711	5W	5~80V	120KHz	0.5A	±2%	93%	ADJ	1.25V	SOP8-EP		ACTIVE
XL9712	15W	5~80V	120KHz	1A	±2%	94%	ADJ	1.25V	TO252-5L	High Power	ACTIVE
XL9713	25W	5~80V	120KHz	1.5A	±2%	94%	ADJ	1.25V	TO263-5L	High Power	ACTIVE
XL9714	30W	5~80V	120KHz	1.5A	±2%	94%	ADJ	1.25V	TO220-5L	High Power	ACTIVE
XL9801	10W	6~120V	100K~1M	1A	±1.5%	95%	ADJ	1.2V	SOP8-EP	EN	PREVIEW
XL9802	15W	6~120V	100K~1M	1.5A	±1.5%	95%	ADJ	1.2V	DFN5*6-8	EN	PREVIEW
XL9813	30W	5~80V	200KHz	3A	±2%	95%	ADJ/5V/15V	1.25V	TO252-5L	High Power	PREVIEW
XL9815	40W	5~80V	200KHz	4A	±2%	95%	ADJ/5V/15V	1.25V	TO263-5L	High Power	PREVIEW
XL9816	50W	5~80V	200KHz	5A	±2%	95%	ADJ/5V/15V	1.25V	TO220-5L	High Power	PREVIEW

DC/DC Power Management Boost Converters（Boost Converters Roadmap）



DC/DC Power Management Boost Converters（Medium Voltage Boost(Build in SBD)）

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL6107	2W	2.5~20V	1.2MHz	0.5A	±2%	85%	ADJ(3~32V)	0.41V	SOT23-6	EN	ACTIVE
XL6108	6W	2.5~25V	1.2MHz	1.0A	±2%	89%	ADJ(3~27V)	0.41V	SOP8-EP	EN SEPIC	ACTIVE
XL6109	4W	2.5~25V	1.2MHz	0.6A	±2%	87%	ADJ(3~32V)	0.41V	DFN3*3-8	EN SEPIC	ACTIVE
XL6110	6W	2.5~25V	1.2MHz	1.0A	±2%	89%	ADJ(3~27V)	0.41V	DFN3*3-8	EN SEPIC	ACTIVE

DC/DC Power Management Boost Converters（Medium Voltage Synchronous Boost）

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL6401	5W	4.5~36V	800KHz	0.8A	±2%	90%	ADJ(5~40V)	1.2V	SOT23-6	EN	PREVIEW
XL6402	10W	4.5~36V	800KHz	2.0A	±2%	93%	ADJ(5~40V)	1.2V	DFN3*3-8	EN	PREVIEW

DC/DC Power Management Boost Converters（High Voltage Boost）

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL6007	8W	3.6~24V	400KHz	2A	±3%	92%	ADJ(4.2~60V)	1.25V	SOP8	EN	ACTIVE
XL6008	20W	3.6~32V	400KHz	3A	±3%	93%	ADJ(4.2~60V)	1.25V	TO252-5L	EN	ACTIVE
XL6019	100W	5~40V	180KHz	5A	±3%	95%	ADJ(6.0~60V)	1.25V	TO263-5L	EN High Power	ACTIVE
XL6012	100W	5~40V	180KHz	5A	±3%	95%	ADJ(6.0~60V)	1.25V	TO220-5L	EN High Power	ACTIVE

Low Dropout Linear Regulator（LDO）

LDO (Low Dropout Regulator) is a linear voltage regulator circuit. Its core function is to convert an unstable input DC voltage into a stable output DC voltage. It is widely used in battery-powered devices, analog circuits, portable electronic devices, and other fields. Essentially, it maintains output stability by adjusting the conduction state of internal transistors and consuming excess voltage. It features low voltage drop, low noise, and a simple circuit design.

Typical application example of LDO

Low Dropout Linear Regulator（LDO）

DanaTech

LR8103 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8103A-T	6.5V	1.2V~5.0V	300mA	0.8μA	1%	——	YES	YES	——	SOT23-3L	LR8103 AXX
LR8103B-T	6.5V	1.2V~5.0V	300mA	0.8μA	1%	YES	YES	YES	——	SOT23-5L	LR8103 BXX
LR8103A-M	6.5V	1.2V~5.0V	300mA	0.8μA	1%	——	YES	YES	——	SOT89-3L	LR8103 AXX
LR8103B-N	6.5V	1.2V~5.0V	300mA	0.8μA	1%	YES	YES	YES	——	DFN1*1-4L	NXX

LR8105 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8105B-T	6.5V	2.0V~3.6V	500mA	55μA	2%	YES	YES	YES	——	SOT23-3L	LR8105 BXX
LR8105B-N	6.5V	2.8V~3.3V	500mA	55μA	2%	YES	YES	YES	——	DFN1*1-4L	CXX

LR8106 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	PSRR @1KHz	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8106A-T	6.5V	1.2V~5.0V	500mA	60μA	70dB	——	YES	YES	——	SOT23-3L	LR8106 AXX
LR8106B-T	6.5V	1.2V~5.0V	500mA	60μA	70dB	YES	YES	YES	——	SOT23-5L	LR8106 BXX

Low Dropout Linear Regulator（LDO）

LR6206\LR6207A Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR6206A-T	6.5V	1.2V~5.0V	300mA	6μA	2%	——	YES	YES	——	SOT23-3L	LR6206 AXX
LR6207A-T	6.5V	1.2V~5.0V	300mA	6μA	2%	YES	YES	YES	——	SOT23-5L	LR6207 AXX
LR6206B-U	6.5V	1.8V~3.3V	300mA	6μA	2%	——	YES	——	——	SOT23	LR6206X

LR8321 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8321A-T	24V	2.5V~5.0V	100mA	1.5μA	2%	——	YES	YES	——	SOT23-3L	LR8321 AXX
LR8321A-M	24V	2.5V~5.0V	100mA	1.5μA	2%	——	YES	YES	——	SOT89-3L	LR8321 AXX

LR8323 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8323A-T	24V	1.2V~5.0V	300mA	2μA	1%	——	YES	YES	YES	SOT23-3L	LR8323 AXX
LR8323A-M	24V	1.2V~5.0V	300mA	2μA	1%	——	YES	YES	YES	SOT89-3L	LR8323 AXX
LR8323B-T	24V	1.2V~5.0V	300mA	2μA	1%	YES	YES	YES	YES	SOT23-5L	LR8323 BXX

Low Dropout Linear Regulator（LDO）

LR8341 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8341A-T	40V	2.5V~5.0V	100mA	2.3μA	2%	——	YES	——	——	SOT23-3L	LR8341 AXX
LR8341A-M	40V	2.5V~5.0V	100mA	2.3μA	2%	——	YES	——	——	SOT89-3L	LR8341 AXX

LR8342 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8342A-T	40V	2.5V~5.0V	250mA	2.0μA	2%	——	YES	YES	——	SOT23-3L	LR8342 AXX
LR8342A-M	40V	2.5V~5.0V	250mA	2.0μA	2%	——	YES	YES	——	SOT89-3L	LR8342 AXX
LR8342B-T	40V	2.5V~5.0V	250mA	2.0μA	2%	YES	YES	YES	——	SOT23-5L	LR8342 AXX

LR8352 Series

产品型号	输入耐压	输出电压	输出电流	静态电流	输出精度	使能功能	短路保护	过流保护	过温保护	封装形式	印字信息
LR8352A-T	50V	1.2V~9.0V	200mA	2.0μA	1% / 2%	——	YES	YES	YES	SOT23-3L	LR8352 AXX
LR8352A-M	50V	1.2V~9.0V	200mA	2.0μA	1% / 2%	——	YES	YES	YES	SOT89-3L	LR8352 AXX
LR8352B-T	50V	1.2V~9.0V	200mA	2.0μA	1% / 2%	YES	YES	YES	YES	SOT23-5L	LR8352 BXX

Lithium battery charging management IC

Lithium battery charging management chips are integrated circuits specifically designed to monitor and manage the charging process of lithium batteries. Their core function is to ensure efficient charging of lithium batteries within a safe range by precisely controlling charging parameters (such as voltage, current, temperature), while also extending the battery's lifespan. Our charging management chips are available in two major series: medium and low voltage, and high voltage.

Typical application example of lithium battery charging IC

Lithium battery charging management IC

Medium and Low Voltage Series

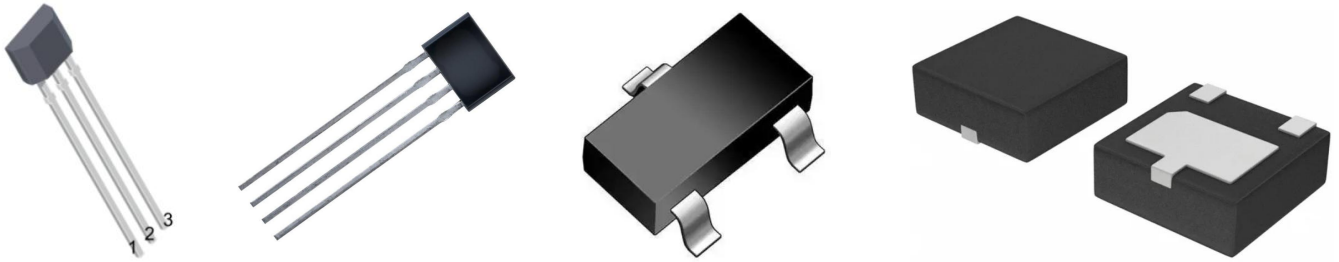
产品型号	工作电压范围	输入耐压	BAT电压	BAT耐压	充电电流 (MAX)	漏电流	涓流电流	截止电流	指示灯	使能	温度保护	封装形式	印字信息
LR4054A-T	4.25-6.0V	9V	4.2V	9V	0.5A	<2μA	2C/10	2C/10	单灯	——	——	SOT23-5L	LR4054 AXX
LR4056A-E	4.25-6.0V	9V	4.2V	9V	0.8A	<2μA	2C/10	2C/10	双灯	——	——	ESOP-8L	LR4056 AXX
LR4056M-E	4.25-6.0V	16V	4.2V	10V	1.0A	<2μA	1C/10	1C/10	双灯	Y	Y	ESOP-8L	LR4056 MXX
LR4056H-E	4.25-6.0V	30V	4.2V	12V	1.0A	<2μA	2C/10	2C/10	双灯	Y	Y	ESOP-8L	LR4056 HXX
LR4057A-T	4.25-6.0V	9V	4.2V	9V	0.6A	<2μA	2C/10	2C/10	双灯	——	——	SOT23-6L	LR4057 AXX
LR4058A-ET	4.25-6.0V	12V	4.2V	10V	0.8A	<2μA	2C/10	2C/10	单灯	——	——	ESOT23-5L	LR4058 AXX
LR4058B-ET	4.25-6.0V	12V	4.2V	10V	0.8A	<2μA	2C/10	2C/10	双灯	——	——	ESOT23-6L	LR4058 BXX
LR4085A-T	4.25-6.0V	28V	4.2V	10V	0.6A	<2μA	1C/10	1C/10	单灯	——	——	SOT23-5L	LR4085 AXX

Lithium battery charging management IC

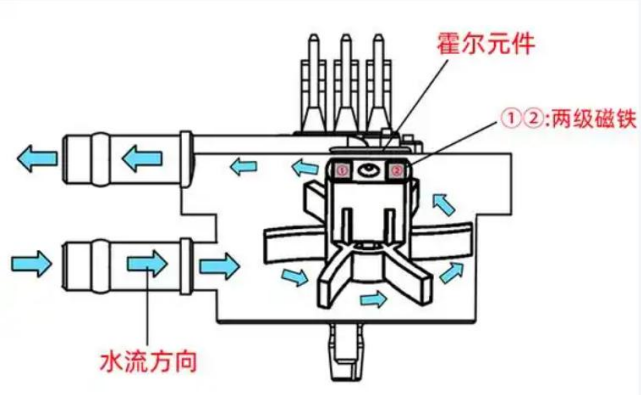
High Voltage Series

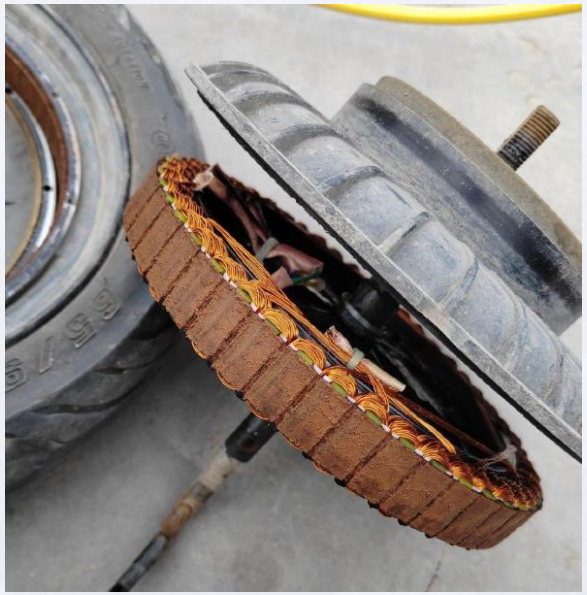
产品型号	工作电压范围	输入耐压	BAT电压	BAT耐压	充电电流 (MAX)	漏电流	涓流电流	截止电流	指示灯	使能	温度保护	封装形式	印字信息
LR5106A-T	4.25-6.0V	30V	4.2V	13V	0.6A	<2μA	1C/10	1C/10	单灯	——	——	SOT23-5L	LR5106 AXX
LR5107A-T	4.25-6.0V	30V	4.2V	20V	0.7A	<2μA	1C/10	1C/10	单灯	——	——	SOT23-6L	LR5107 AXX
LR5107B-T	4.25-6.0V	30V	4.2V	20V	0.7A	<2μA	1C/10	1C/10	双灯	——	——	SOT23-6L	LR5107 BXX
LR5108-T	4.25-6.0V	30V	4.2V	20V	0.8A	<3μA	2C/10	2C/10	单灯	——	——	SOT23-5L	LR5108 XX
LR5108B-T	4.25-6.0V	30V	4.2V	20V	0.8A	<3μA	2C/10	2C/10	双灯	——	——	SOT23-6L	LR5108 BXX
LR5108C-T	4.25-6.0V	30V	4.2V	20V	0.8A	<3μA	2C/10	2C/10	单灯	——	Y	SOT23-6L	LR5108 BXX
LR5108D-T	4.25-6.0V	30V	4.2V	20V	0.8A	<3μA	2C/10	2C/10	单灯	H高电平	——	SOT23-6L	LR5108 BXX
LR5110-N	4.25-6.0V	30V	4.2V	20V	1.0A	<3μA	2C/10	2C/10	双灯	H高电平	Y	DFN2X2-8L	LR5110 XX
LR5110-ET	4.25-6.0V	30V	4.2V	20V	1.0A	<3μA	2C/10	2C/10	双灯	H高电平	Y	ESOT23-8L	LR5110 XX
LR5112-E	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	H高电平	Y	ESOP-8L	LR5112 XX
LR5112-PN	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	H高电平	Y	PDFN 3.3X3.3-8L	LR5112 XX
LR5113A-2N	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	L低电平	Y	DFN2X2-8L	LR5113 AXX
LR5113A-3N	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	L低电平	Y	DFN3X3-8L	LR5113 AXX
LR5113A-E	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	L低电平	Y	ESOP-8L	LR5113 AXX
LR5113A-PN	4.25-6.0V	30V	4.2V	20V	1.2A	<3μA	2C/10	2C/10	双灯	L低电平	Y	PDFN 3.3X3.3-8L	LR5113 AXX

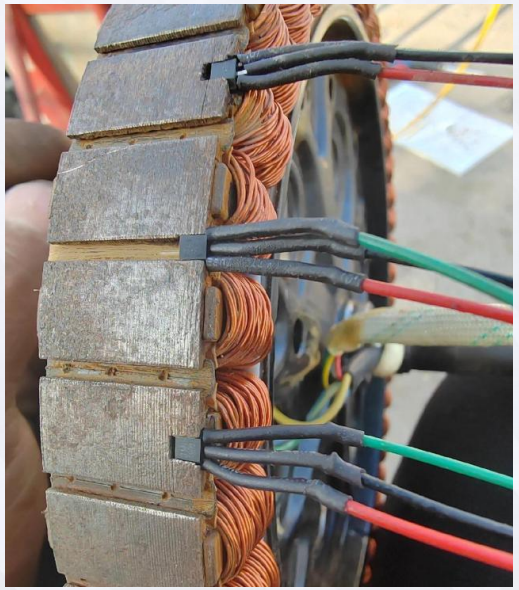
03 Hall Device

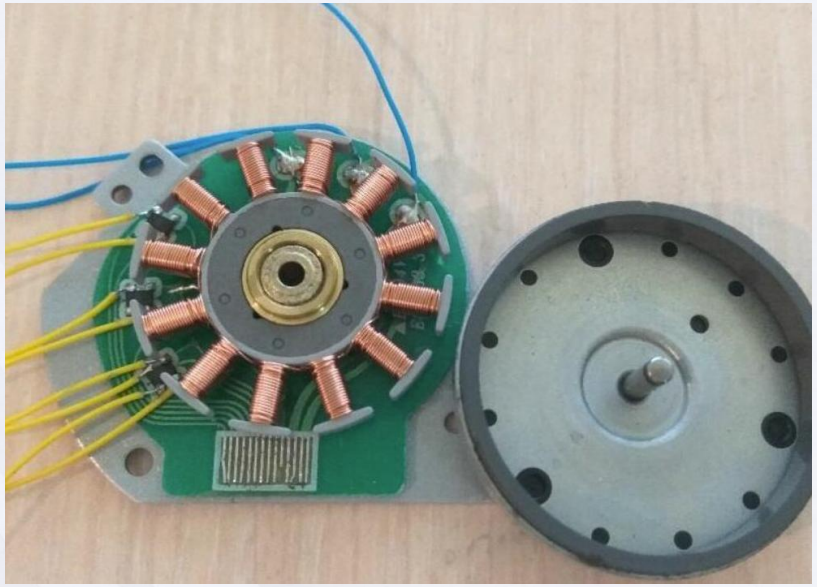


Typical application example of Hall switch



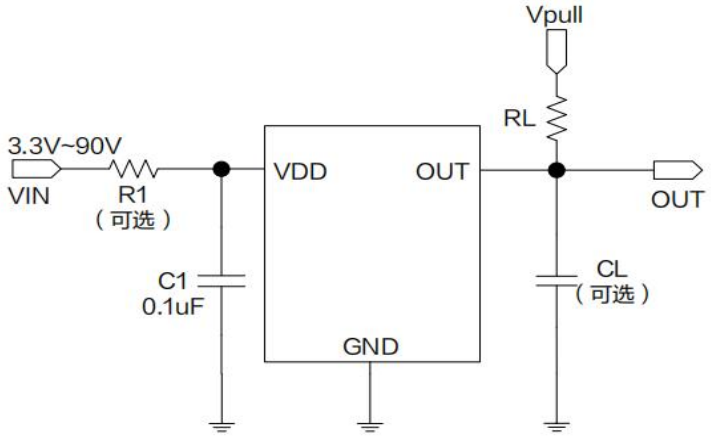




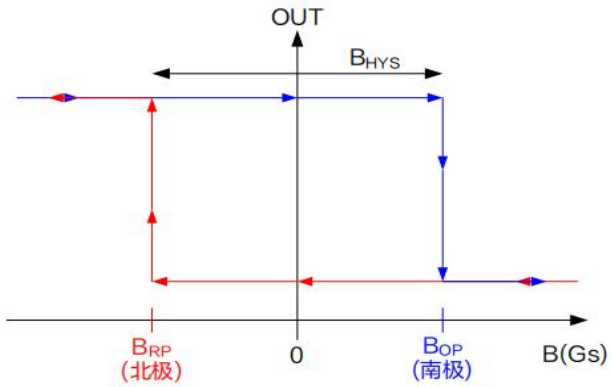


High-Voltage Hall Switch IC

523A/B is a high-voltage Hall switch sensor specifically designed and optimized for EBIKE motor applications. It features high voltage and wide temperature range capabilities, supports a wide power supply range from 3.3V to 90V, and adopts an open collector output architecture, providing a load capacity of up to 30mA.



典型应用原理图

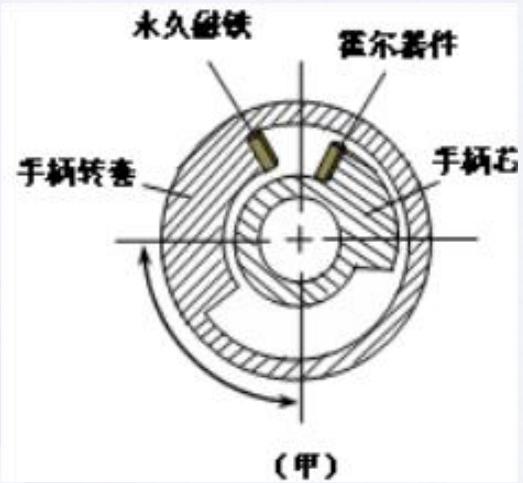


输出特性曲线图

注：主要应用于EBIKE（两轮、三轮）方案。

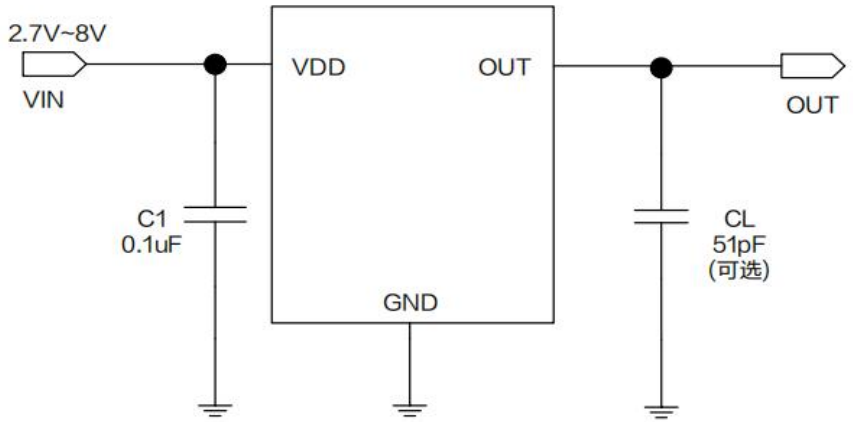
系列名称	类型	输入电压	工作点	释放点	磁滞	响应磁极	推荐封装形式	成品型号	状态
523A	锁存	3.3~90V	60Gs	-60Gs	120Gs	S极	TO92S-3	M5533	量产
523B	锁存	3.3~90V	-65Gs	65Gs	130Gs	N极	SOT23-3	M5534	量产
	锁存	3.3~90V	-65Gs	65Gs	130Gs	N极	TO92S-3	M5529	量产

Typical application example of linear Hall sensor

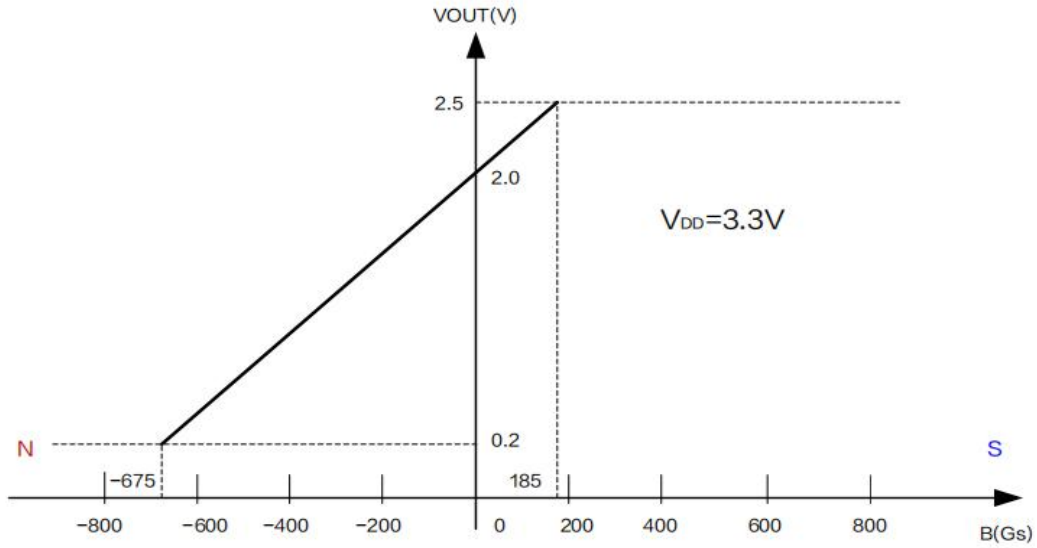


Single N-pole response linear Hall IC

516B and 536B are linear Hall sensors specifically optimized for magnetic shaft keyboard applications. They feature low power consumption, a wide linear range, a wide voltage range, and a wide temperature range. Their output voltage varies proportionally with magnetic field strength, and the linear output voltage range varies with the power supply voltage.



典型应用原理图



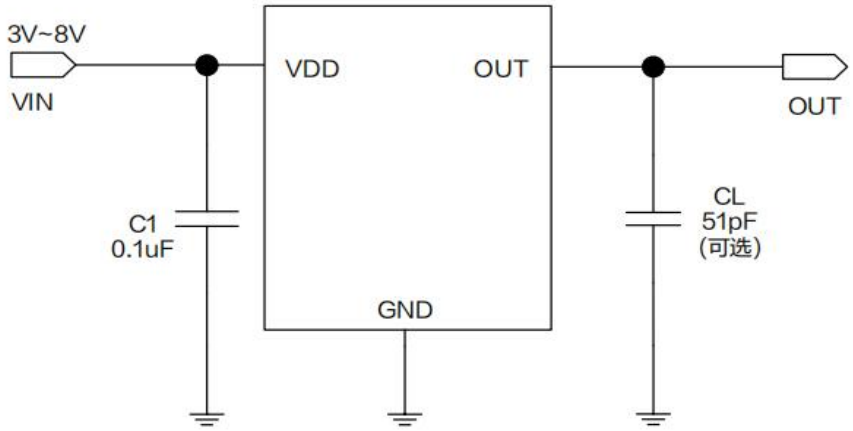
输出特性曲线图

注：主要应用于磁轴键盘方案。

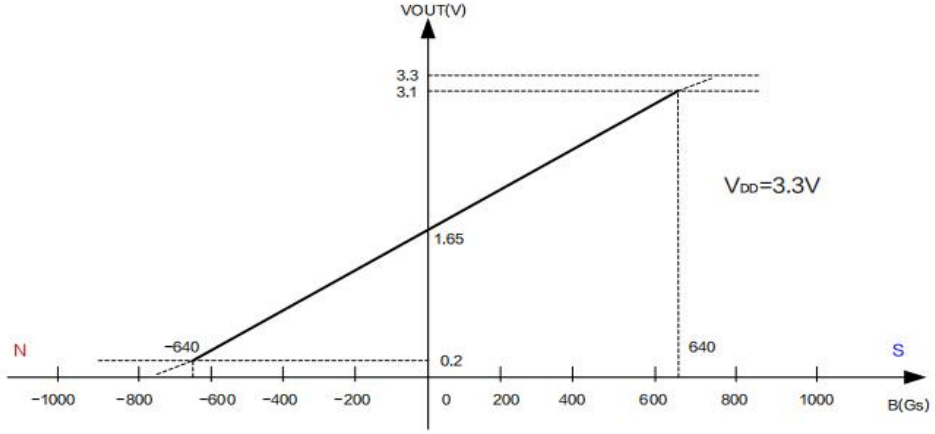
系列名称	响应磁极	输入电压	静态电流	灵敏度	线性度	最低输出电压	静态输出电压	最高输出电压	推荐封装形式	成品型号	状态
516B	单N极	2.7~8V	1.4mA	2.38mV/Gs	±4%	0.8V	2.05V	2.5V	SOT23-3	M5049	量产
536B	单N极	2.7~8V	1.8mA	2.95mV/Gs	±1%	**0.2V**	2.04V	2.5V	SOT23-3	M5042X	量产

S&N bipolar response linear Hall IC

516G/H and 525D are linear Hall chips specifically optimized for applications such as joysticks and triggers. They feature low power consumption, wide voltage range, wide linear range, and wide temperature range. Their output voltage varies proportionally with magnetic field strength, and the linear output voltage range varies with the supply voltage.



典型应用原理图



输出特性曲线图

注：主要应用于游戏摇杆、扳机等方案。

系列名称	响应磁极	输入电压	静态电流	灵敏度	斜率	线性度	最低输出电压	静态输出电压	最高输出电压	推荐封装形式	成品型号	状态
516G	S&N双极	2.7~8V	1.4mA	2.55mV/Gs	正	±4%	0.8V	1.65V	2.5V	TO92S-3	M5047T	量产
516H		2.7~8V	1.4mA	-2.55mV/Gs	负	±4%	0.8V	1.65V	2.5V	SOT23-3	M5047S	量产
525D	S&N双极	3~8V	1.8mA	4.2mV/Gs	正	±1%	**0.2V**	1.65V	**3.1V**	TO92S-3	M5044T	量产
		3~8V	1.8mA	4.2mV/Gs	正	±1%	**0.2V**	1.65V	**3.1V**	SOT23-3	M5044S	量产

04
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