

XLSEMI

产品手册

PRODUCT MANUALS

上海芯龙半导体技术股份有限公司

SHANGHAI XINLONG SEMICONDUCTOR TECHNOLOGY CO.,LTD.

专业 | 专注 | 务实 | 创新 | 高效 | 沟通

Professional | Concentration | Pragmatic | Innovation | Efficient | Communication



公司介绍 Company Profile

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- 发展历程
- 荣誉资质



产品中心 Product Center

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- 产品介绍
 - 电源管理
 - 信号链
 - 音频功放
 - MEMS传感器



应用领域 Application

- 汽车电子
- 工业控制
- 通讯设备
- 消费电子
- 家用电器
- 安防监控
- 仪器仪表



服务支持 Service Support

- 知名客户
- 联系我们

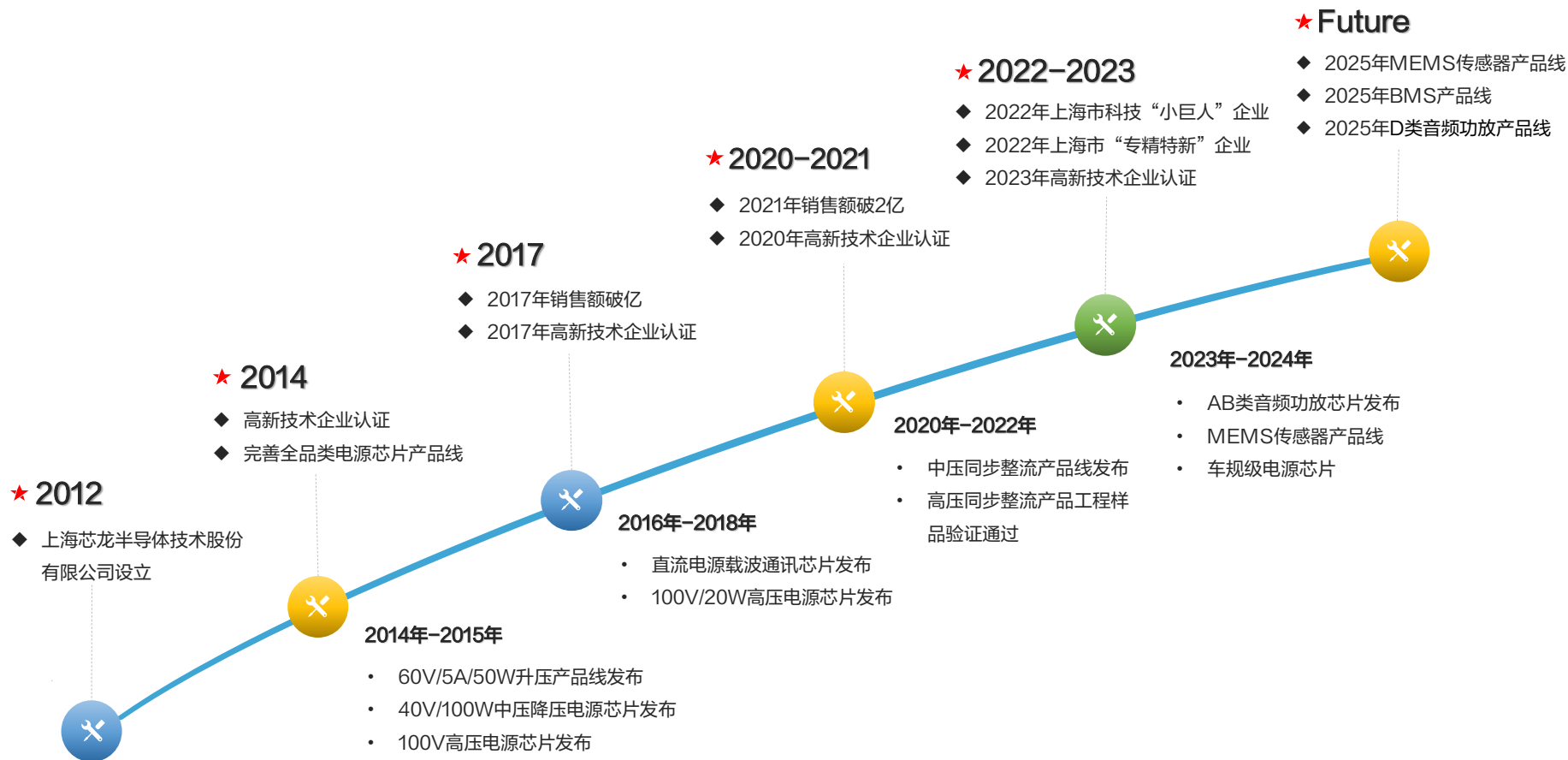
上海芯龙半导体技术股份有限公司（**XLSEMI**）是一家专注于高性能模拟集成电路研发、设计与销售的公司，结合创新的设计技术和产业链的制造优势，搭建了产业化的“芯片设计+晶圆制造+封装测试”全流程平台，自主研发多项核心技术并获得国内外百余项发明专利授权，为客户提供高品质、高可靠性的产品及服务。

公司主要产品线包括电源管理、信号链、音频功放、MEMS传感器等，广泛应用于汽车电子、工业控制、通讯设备、消费电子、家用电器、安防监控及仪器仪表等领域。

公司始终秉承“专业、专注、务实、创新、高效、沟通”的经营理念，致力成为世界一流的模拟集成电路服务商。

XLSEMI is a leading domestic company, focusing on the R&D, design and sales of high-performance analog integrated circuits. Consolidating innovative design technology and manufacturing advantages of the industrial chain, XLSEMI has built an industrialized "Chip Design + Wafer Manufacturing + Assembly and Test" full-process platform, independently developed a lot of core technologies and obtained over 100 domestic and foreign invention patent authorizations, providing customers with high-quality, high-reliability products and services. Our diverse product portfolio covers power management, signal chain, audio amplifier, MEMS sensor, etc., which are widely used in automotive electronics, industrial control, communication apparatus, consumer electronics, household appliances, security surveillance and instrumentation and other fields. XLSEMI has always been adhering to the business philosophy of "professional, concentration, pragmatic, innovation, efficient and communication", and devotes to become a world-class supplier of analog integrated circuit service.





- ✓ 高新技术企业
- ✓ 百余项国内外发明专利
- ✓ 国际专利PCT11项
- ✓ 300余项集成电路布图设计登记
- ✓ ISO 9001质量管理体系
- ✓ 知识产权管理认证



上海市科技“小巨人”企业
上海市“专精特新”企业
上海市专利工作试点企业



浦东新区企业研发机构
上海市高新技术成果转化项目
上海市创新型中小企业

电源管理

1.1 DC/DC电源管理

- 1.1.1 降压型变换器
- 1.1.2 升压型变换器
- 1.1.3 LED驱动

1.2 AC/DC电源管理

- 1.2.1 非隔离型变换器
- 1.2.2 隔离型变换器

1.3 BMS

- 1.3.1 电池监控与均衡器
- 1.3.2 电池保护器
- 1.3.3 主动均衡器

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- 1.4.1 IPM

信号链

2.1 直流电源载波通讯

- 2.1.1 增强型载波通讯器
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- 2.1.3 内置LDO载波通讯器

音频功放

3.1 AB类音频功率放大器

- 3.1.1 单通道放大器
- 3.1.2 双通道放大器
- 3.1.3 四通道放大器

3.2 D类音频功率放大器

- 3.2.1 双通道放大器
- 3.2.2 四通道放大器

MEMS传感器

4.1 霍尔传感器

- 4.1.1 霍尔开关传感器
- 4.1.2 线性霍尔传感器
- 4.1.3 电流传感器

4.2 红外传感器

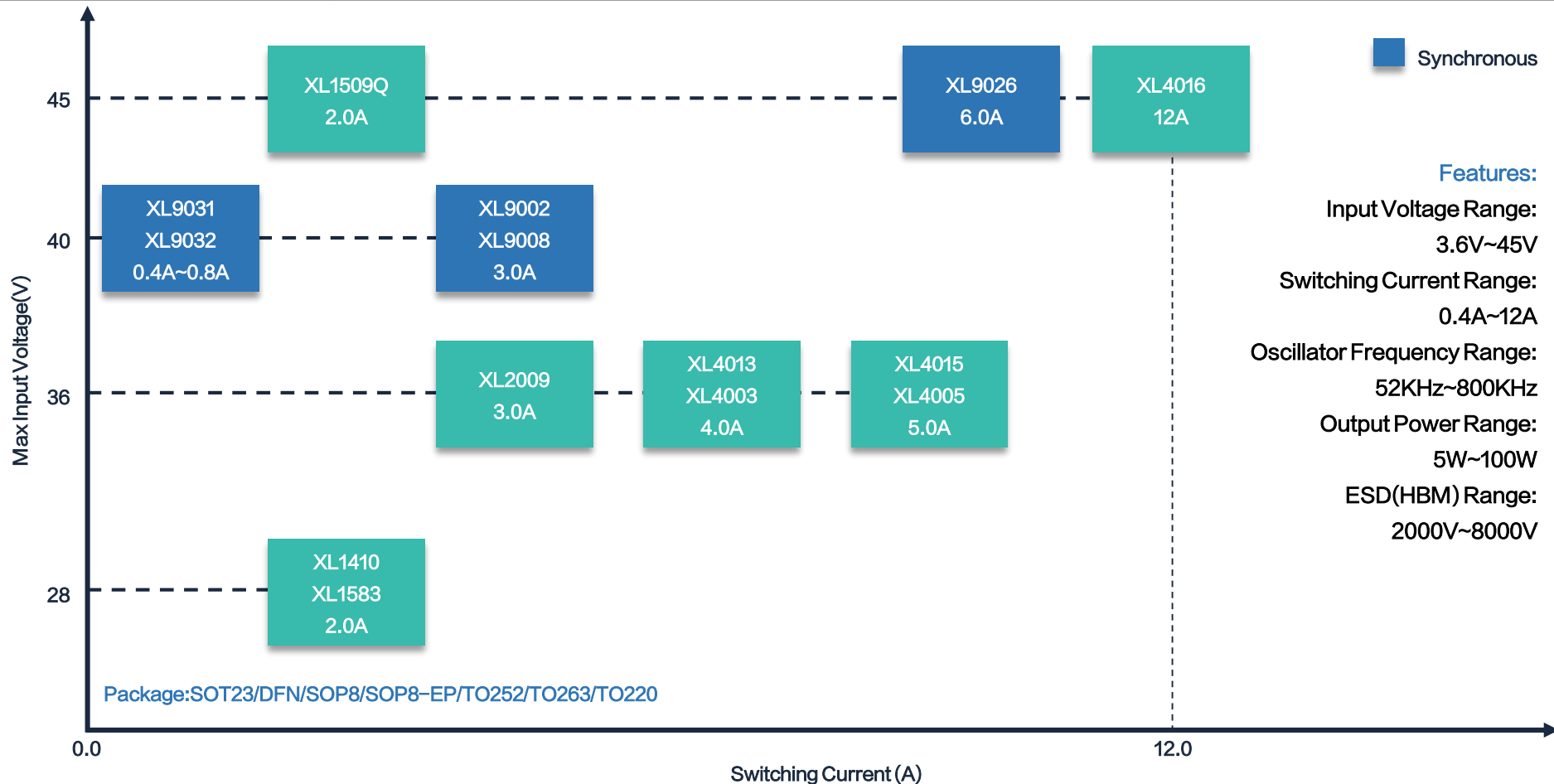
- 4.2.1 非分光红外型气体探测器
- 4.2.2 非接触式温度传感器
- 4.2.3 非制冷红外热电堆阵列探测器
- 4.2.4 非制冷氧化钒红外焦平面探测器

4.3 压力传感器

- 4.3.1 表压传感器
- 4.3.2 绝压传感器

DC/DC电源管理 – 降压型变换器 – 中压降压路线图

DC/DC Power Management – Buck Converters – Medium Voltage Buck Roadmap

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DC/DC电源管理 – 降压型变换器 – 中压降压

DC/DC Power Management – Buck Converters – Medium Voltage Buck

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL1509S	6W	4.5~32V	150KHz	2A	±3%	85%	ADJ/3.3V/5V	1.23V	SOP8	EN	ACTIVE
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

“蓝色字体” 为在研产品，具体参数以产品规格书为准。

DC/DC电源管理 – 降压型变换器 – 中压降压

DC/DC Power Management – Buck Converters – Medium Voltage Buck

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

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
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电源管理 – 降压型变换器 – 中压降压同步整流

DC/DC Power Management – Buck Converters – Medium Voltage Synchronous Buck

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

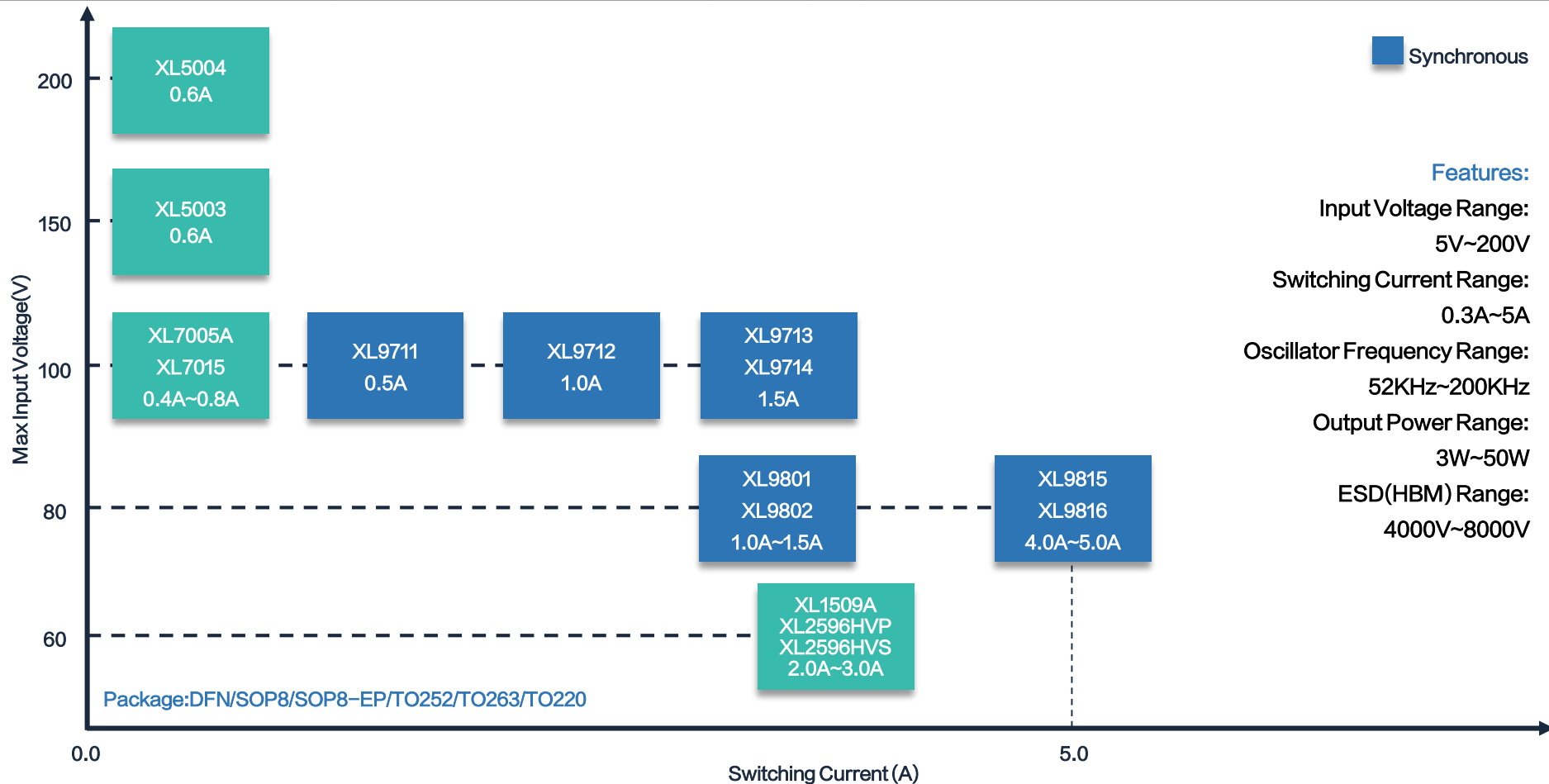
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Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9004	12W	5~45V	200KHz	2A	±2%	95%	ADJ	1.25V	SOP8-EP	CC&CV	ACTIVE
XL9005	15W	5~45V	200KHz	3A	±2%	95%	ADJ	1.25V	SOP8-EP	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

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DC/DC电源管理 – 降压型变换器 – 高压降压路线图

DC/DC Power Management – Buck Converters – High Voltage Synchronous Buck Roadmap

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DC/DC电源管理 – 降压型变换器 – 高压降压

DC/DC Power Management – Buck Converters – High Voltage Buck

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

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
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
XL7054	10W	12~90V	180KHz	1A	±1.5%	93%	ADJ	1.25V	SOP8		PREVIEW
XL7055	20W	12~90V	180KHz	2A	±1.5%	93%	ADJ	1.25V	TO252-5L		PREVIEW
XL7058	20W	12~90V	180KHz	2A	±1.5%	93%	ADJ	1.25V	TO252-5L		PREVIEW

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL5003	8W	18~150V	100KHz	0.6A	±5%	80%	5V/12V/15V	–	SOP8	High Voltage	PREVIEW
XL5004	8W	18~200V	100KHz	0.6A	±5%	80%	5V/12V/15V	–	SOP8	High Voltage	PREVIEW

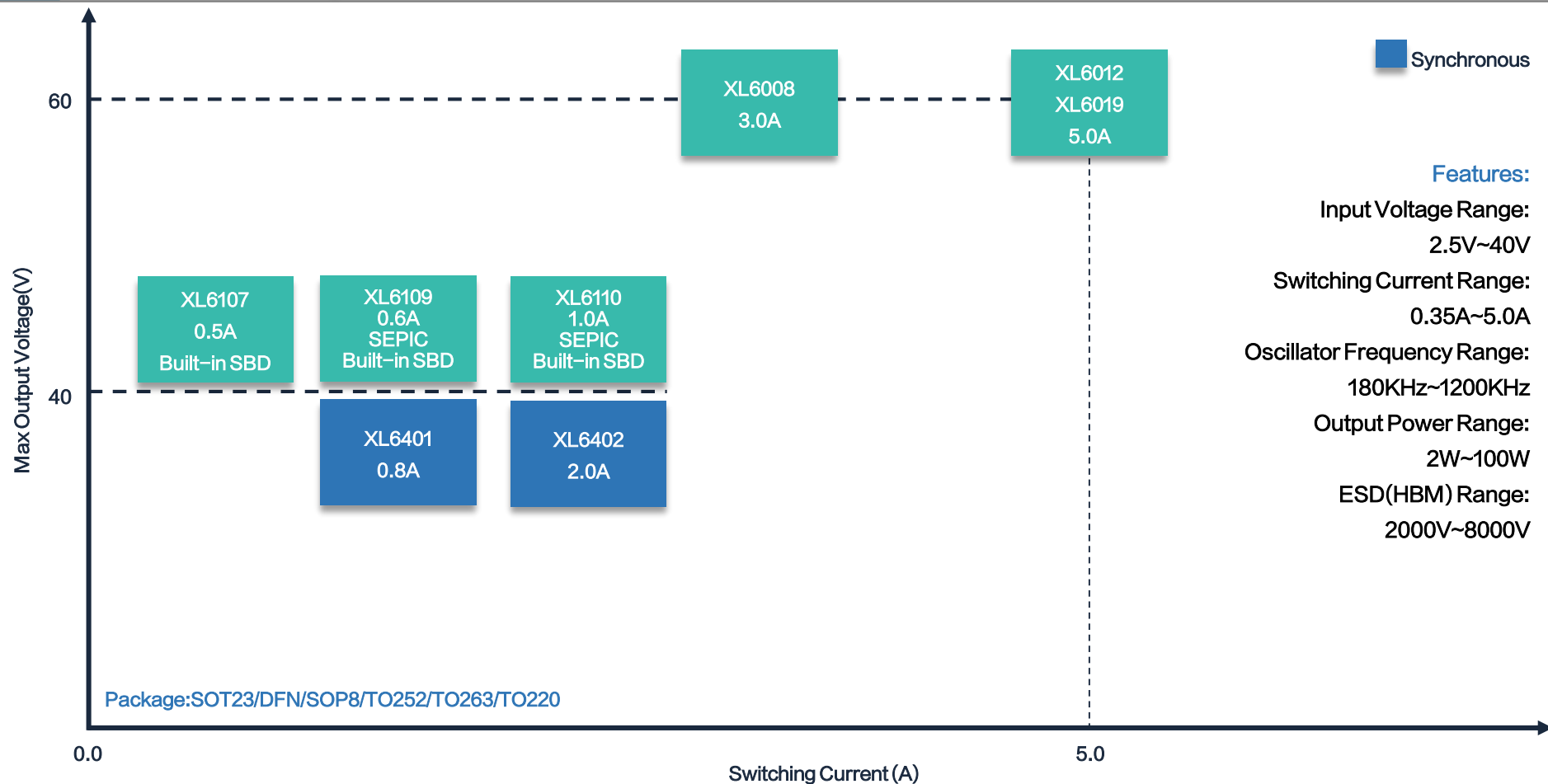
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Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9711	5W	5~80V	120KHz	0.5A	±2%	93%	ADJ	1.25V	SOP8-EP		ACTIVE
XL9712	15W	5~80V	120KHz	1A	±2%	94%	ADJ	1.25V	TO252-5L	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

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DC/DC电源管理 – 升压型变换器路线图

DC/DC Power Management – Boost Converters Roadmap

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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

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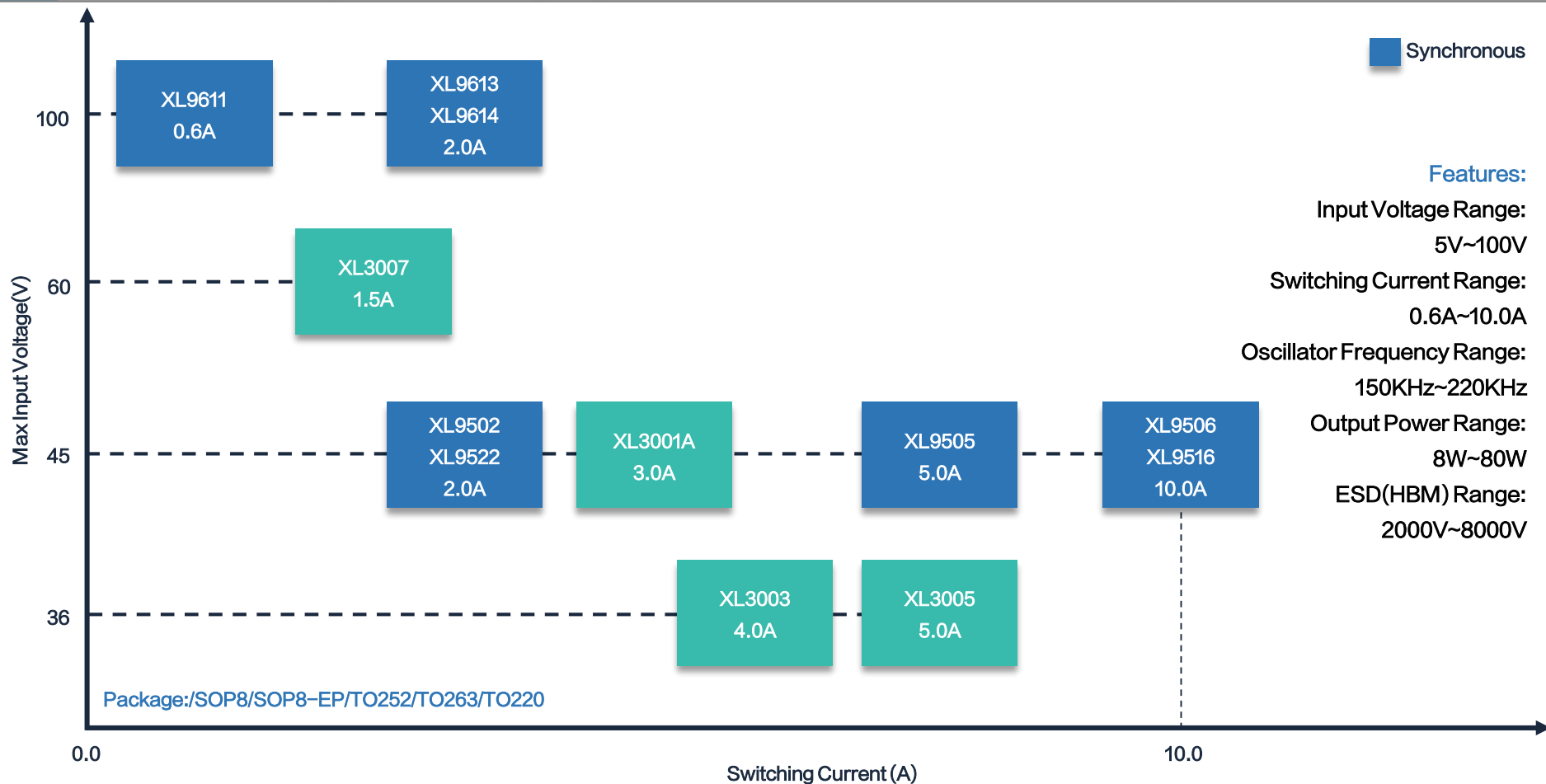
Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL6401	5W	4.5~36V	800KHz	0.8A	±2%	90%	ADJ(5~40V)	1.2V	SOT23-6	EN	PREVIEW
XL6402	10W	4.5~36V	800KHz	2.0A	±2%	93%	ADJ(5~40V)	1.2V	DFN3*3-8	EN	PREVIEW

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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

DC/DC电源管理 – LED驱动 – 降压恒流驱动路线图

DC/DC Power Management – LED Lighting Driver – Buck constant current driver Roadmap

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Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL3001	12W	8~40V	220KHz	3A	±3%	97%	ADJ(0.21~37V)	0.21V	SOP8-EP		ACTIVE
XL3003	30W	8~36V	220KHz	4A	±3%	97%	ADJ(0.21~33V)	0.21V	TO252-5L		ACTIVE
XL3005	50W	8~36V	220KHz	5A	±3%	97%	ADJ(0.21~33V)	0.21V	TO263-5L	High Power	ACTIVE
XL3001A	12W	8~45V	220KHz	3A	±3%	97%	ADJ(0.21~40V)	0.21V	SOP8-EP		ACTIVE
XL3007	12W	8~60V	220KHz	1.5A	±3%	95%	ADJ(3~40V)	0.21V	SOP8-EP		ACTIVE
XL8002	50W	12~100V	PFM	1A	±4%	98%	ADJ(3~60V)	0.1V	TO263-5L	High Power	ACTIVE
XL8005	8W	24~100V	PFM	0.5A	±5%	98%	ADJ(8~26V)	0.2V	SOP8		ACTIVE

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9502	10W	5~45V	200KHz	2A	±4%	95%	ADJ(0.23~33V)	0.23V	SOP8		ACTIVE
XL9503	15W	5~45V	200KHz	3A	±4%	95%	ADJ(0.23~33V)	0.23V	SOP8-EP		ACTIVE
XL9504	30W	5~45V	200KHz	4A	±4%	95%	ADJ(0.23~33V)	0.23V	TO252-5L	High Power	ACTIVE
XL9505	50W	5~45V	200KHz	5A	±4%	95%	ADJ(0.23~33V)	0.23V	TO263-5L	High Power	ACTIVE
XL9506	80W	5~45V	200KHz	6A	±4%	95%	ADJ(0.23~33V)	0.23V	TO220-5L	High Power	ACTIVE
XL9507	10W	5~45V	200KHz	2A	±3%	93%	ADJ(0.23~33V)	0.23V	SOP8	EN	ACTIVE
XL9508	15W	5~45V	200KHz	3A	±3%	93%	ADJ(0.23~33V)	0.23V	SOP8-EP	EN	ACTIVE
XL9522	10W	5~45V	150KHz	2A	±4%	94%	ADJ(0.23~30V)	0.23V	SOP8	EN	ACTIVE
XL9523	15W	5~45V	150KHz	3A	±4%	95%	ADJ(0.23~30V)	0.23V	SOP8-EP	EN	ACTIVE
XL9514	30W	5~45V	150KHz	4A	±4%	97%	ADJ(0.23~30V)	0.23V	TO252-5L	High Power	ACTIVE
XL9515	50W	5~45V	150KHz	6A	±4%	95%	ADJ(0.23~40V)	0.23V	TO263-5L	High Power	PREVIEW
XL9516	80W	5~45V	150KHz	10A	±4%	95%	ADJ(0.23~40V)	0.23V	TO220-5L	High Power	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL9611	5W	5~90V	150KHz	0.6A	± 3%	93%	ADJ(0.22~60V)	0.22V	SOP8		ACTIVE
XL9612	15W	5~90V	150KHz	1.5A	± 3%	93%	ADJ(0.22~60V)	0.22V	TO252-5L	High Power	ACTIVE
XL9613	25W	5~90V	150KHz	2A	± 3%	93%	ADJ(0.22~60V)	0.22V	TO263-5L	High Power	ACTIVE
XL9614	30W	5~90V	150KHz	2A	± 3%	93%	ADJ(0.22~60V)	0.22V	TO220-5L	High Power	ACTIVE

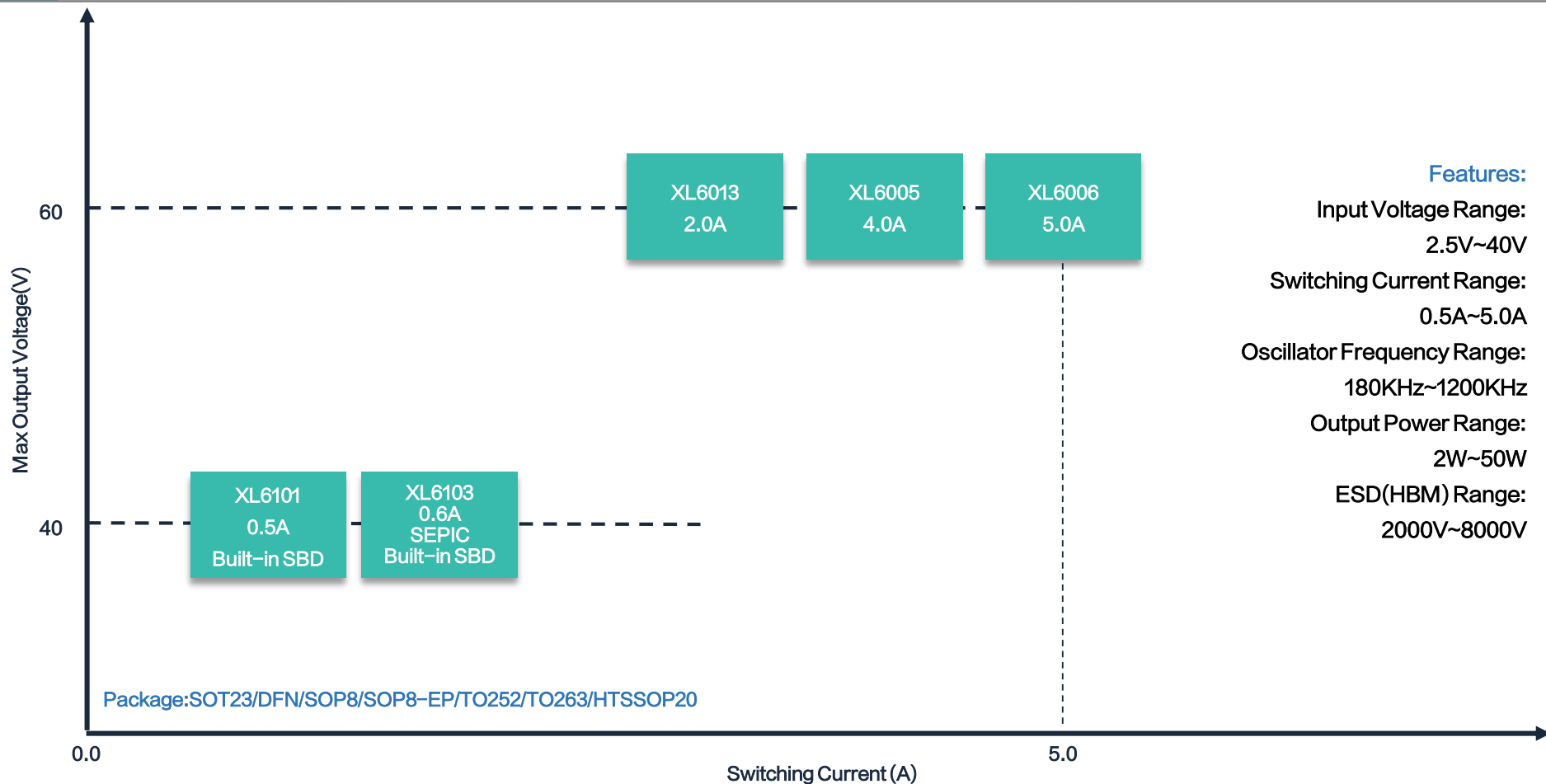
“蓝色字体” 为在研产品，具体参数以产品规格书为准。

DC/DC电源管理 – LED驱动 – 升压恒流驱动路线图

DC/DC Power Management – LED Driver – Boost constant current driver Roadmap

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Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL6001	8W	3.6~24V	400KHz	2A	±5%	92%	ADJ(5~32V)	0.22V	SOP8	EN	ACTIVE
XL6003	8W	3.6~24V	400KHz	2A	±5%	92%	ADJ(5~60V)	0.22V	SOP8	EN	ACTIVE
XL6013	8W	5~40V	400KHz	2A	±3%	95%	ADJ(8~60V)	0.22V	SOP8	EN	ACTIVE
XL6005	20W	3.6~32V	180KHz	4A	±5%	93%	ADJ(5~60V)	0.22V	TO252-5L	EN	ACTIVE
XL6006	50W	5~32V	180KHz	5A	±5%	93%	ADJ(8~60V)	0.22V	TO263-5L	EN	ACTIVE

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	LED	Feedback Voltage	Package	Features	Status
XL6101	2W	2.5~20V	1.2MHz	0.5A	±3%	85%	1~10S	0.2V	SOT23-6	EN	ACTIVE
XL6102	6W	2.5~25V	1.2MHz	1.0A	±3%	88%	1~8S	0.2V	SOP8-EP	EN SEPIC	ACTIVE
XL6103	4W	2.5~25V	1.2MHz	0.6A	±3%	87%	1~10S	0.2V	DFN3*3-8	EN SEPIC	ACTIVE
XL6104	6W	2.5~25V	1.2MHz	1.0A	±3%	88%	1~8S	0.2V	DFN3*3-8	EN SEPIC	ACTIVE

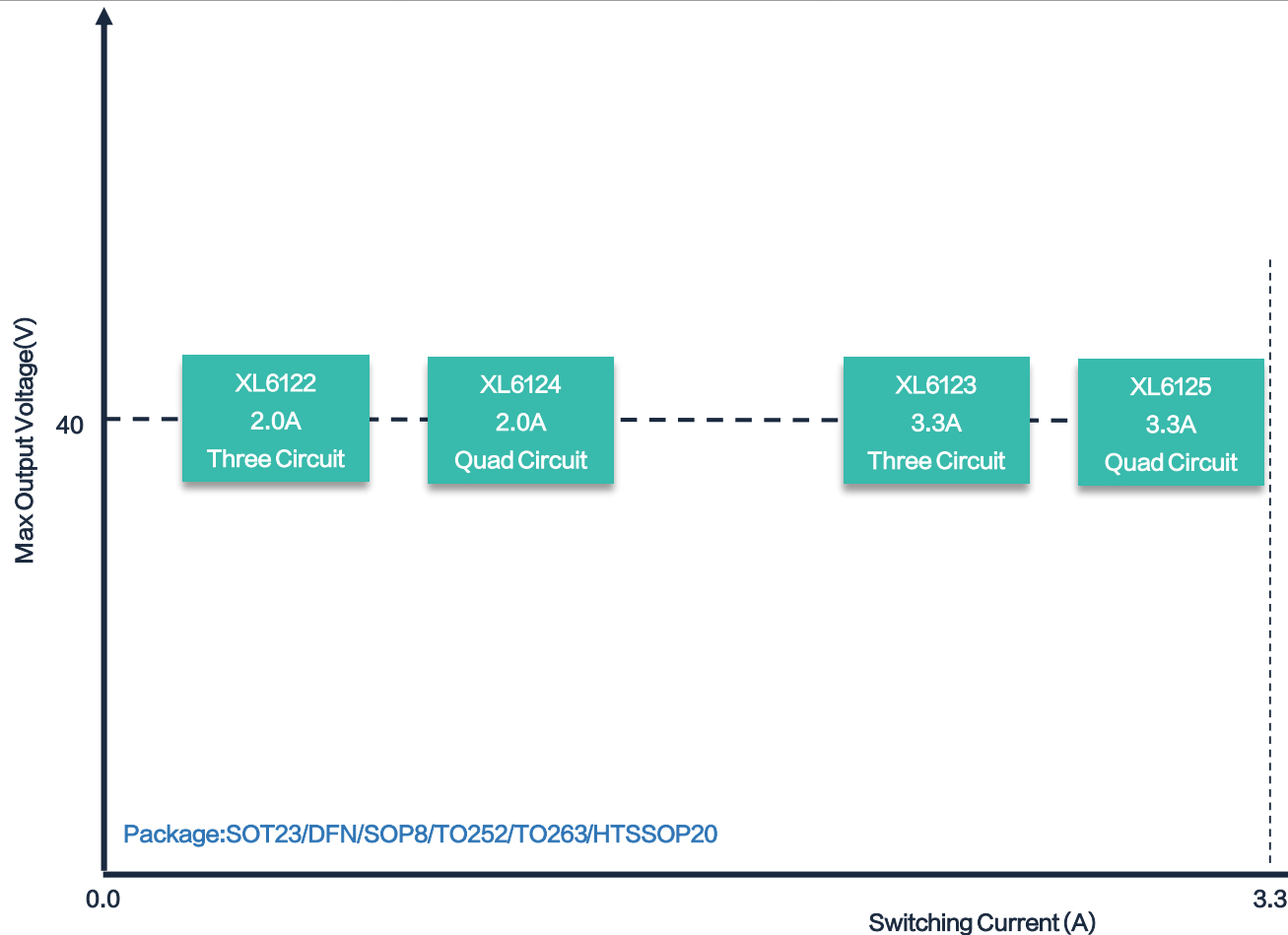
“蓝色字体”为在研产品，具体参数以产品规格书为准。

DC/DC电源管理 – LED驱动 – 背光驱动路线图

DC/DC Power Management – LED Driver – Backlight LED driver Roadmap

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Features:

Input Voltage Range:

2.5V~20V

Switching Current Range:

2.0A~3.3A

Oscillator Frequency Range:

300KHz~1200KHz

Output Power Range:

4W~20W

ESD(HBM) Range:

2000V~8000V

Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	LED	Feedback Voltage	Package	Features	Status
XL6122	8W	2.5~25V	1.2MHz	2.0A	±2%	88%	1~10S	ISET	HTSSOP20	EN Three Circuit	PREVIEW
XL6123	10W	2.5~25V	1.2MHz	3.3A	±2%	88%	1~10S	ISET	HTSSOP20	EN Three Circuit	PREVIEW
XL6124	8W	2.5~25V	1.2MHz	2.0A	±2%	88%	1~10S	ISET	HTSSOP20	EN Quad Circuit	PREVIEW
XL6125	12W	2.5~25V	1.2MHz	3.3A	±2%	88%	1~10S	ISET	HTSSOP20	EN Quad Circuit	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。

AC/DC电源管理路线图

AC/DC Power Management Roadmap

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■ PSR

Features:

Max Input Voltage:

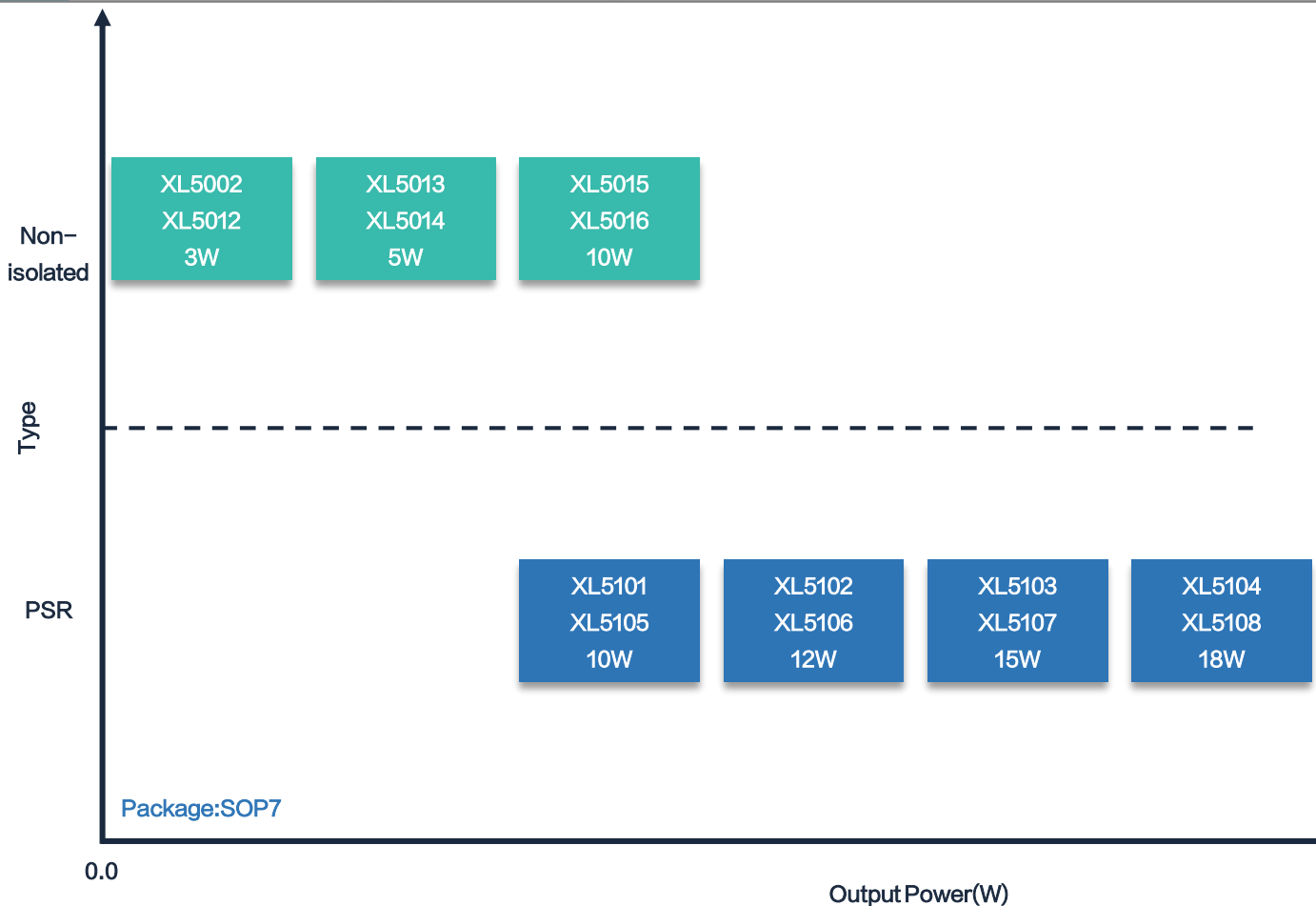
650V

Output Power Range:

3W~18W

ESD(HBM):

8000V



Part Number	Power	Vin	Switching Frequency	Switching Current	Feedback Precision	Efficiency	Vout	Feedback Voltage	Package	Features	Status
XL5002	3W	AC85V~265V	36KHz	0.3A	±5%	80%	5V	–	SOP7	Built-in MOSFET	PREVIEW
XL5012	3W	30~650V	50KHz	0.2A	±5%	80%	12V	–	SOP7	Built-in MOSFET	PREVIEW
XL5013	5W	30~650V	50KHz	0.5A	±5%	80%	ADJ	3V	SOP7	Built-in MOSFET	PREVIEW
XL5014	5W	30~650V	50KHz	0.5A	±5%	80%	12V	–	SOP7	Built-in MOSFET	PREVIEW
XL5015	10W	30~650V	50KHz	1.2A	±5%	80%	ADJ	3V	SOP7	External MOSFET	PREVIEW
XL5016	10W	30~650V	50KHz	1.2A	±5%	80%	12V	–	SOP7	External MOSFET	PREVIEW

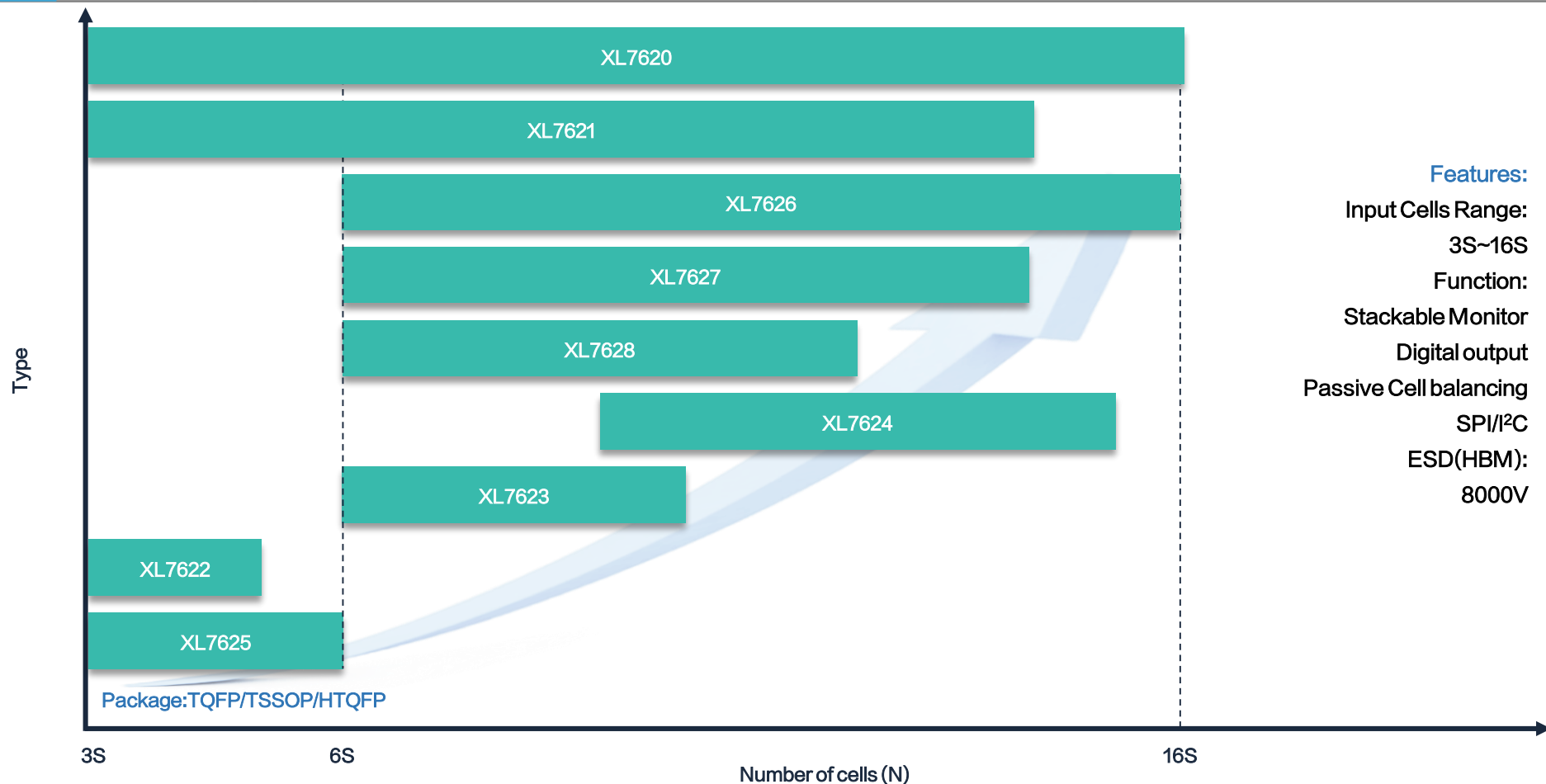
“蓝色字体” 为在研产品，具体参数以产品规格书为准。

Part Number	Power	Vin	Standby Power Consumption	Feedback Precision	Vout	Package	Features	Status
XL5101	10W	650V	< 50mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5102	12W	650V	< 50mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5103	15W	650V	< 50mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5104	18W	650V	< 50mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5105	10W	650V	< 10mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5106	12W	650V	< 10mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5107	15W	650V	< 10mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW
XL5108	18W	650V	< 10mW	± 5%	ADJ	SOP7	CC&CV,PSR	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。

BMS – 电池监控与均衡器路线图

BMS – Battery Monitors & Balancers Roadmap

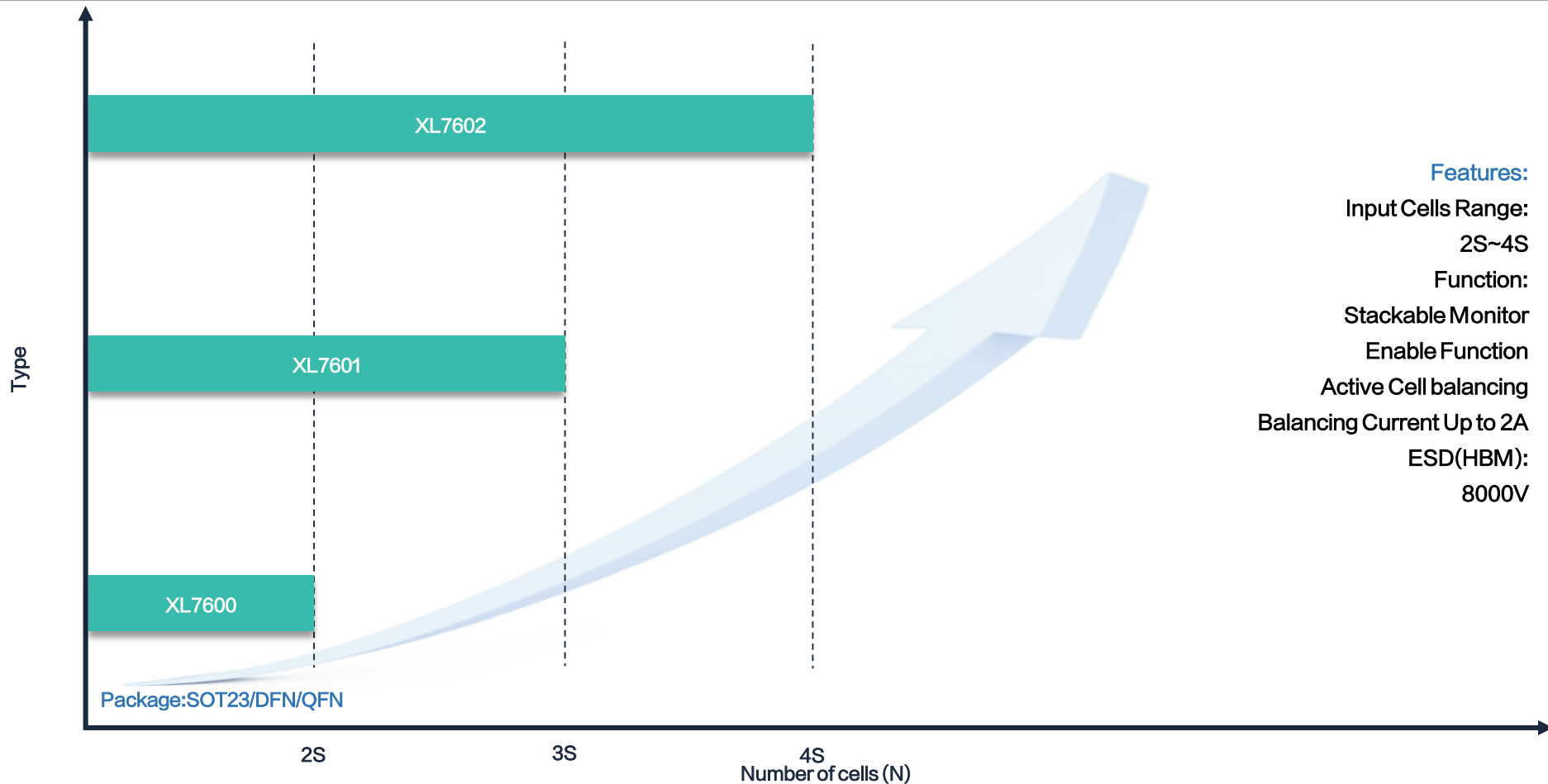


Part Number	Vin	Cells	Package	Features	Status
XL7620	9~85V	3~16S	TQFP-48	I ² C/SPI/HDQ OTP,OVP	PREVIEW
XL7621	9~85V	3~14S	TQFP-48	I ² C/SPI/HDQ OTP	PREVIEW
XL7622	6~25V	3~5S	TSSOP-20	I ² C	PREVIEW
XL7623	12~50V	6~10S	TSSOP-30	I ² C Separate MCU requirement	PREVIEW
XL7624	18~80V	9~15S	TSSOP-44	I ² C Multi-cell support	PREVIEW
XL7625	6~30V	3~6S	TSSOP-20	I ² C	PREVIEW
XL7626	9~80V	6~16S	HTQFP-64	SPI OTP,OVP,UVLO	PREVIEW
XL7627	9~80V	6~14S	HTQFP-64	SPI Multi-cell support	PREVIEW
XL7628	9~80V	6~12S	HTQFP-64	SPI Multi-cell support	PREVIEW

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BMS – 电池主动均衡器路线图

BMS – Battery Active Balancers Roadmap

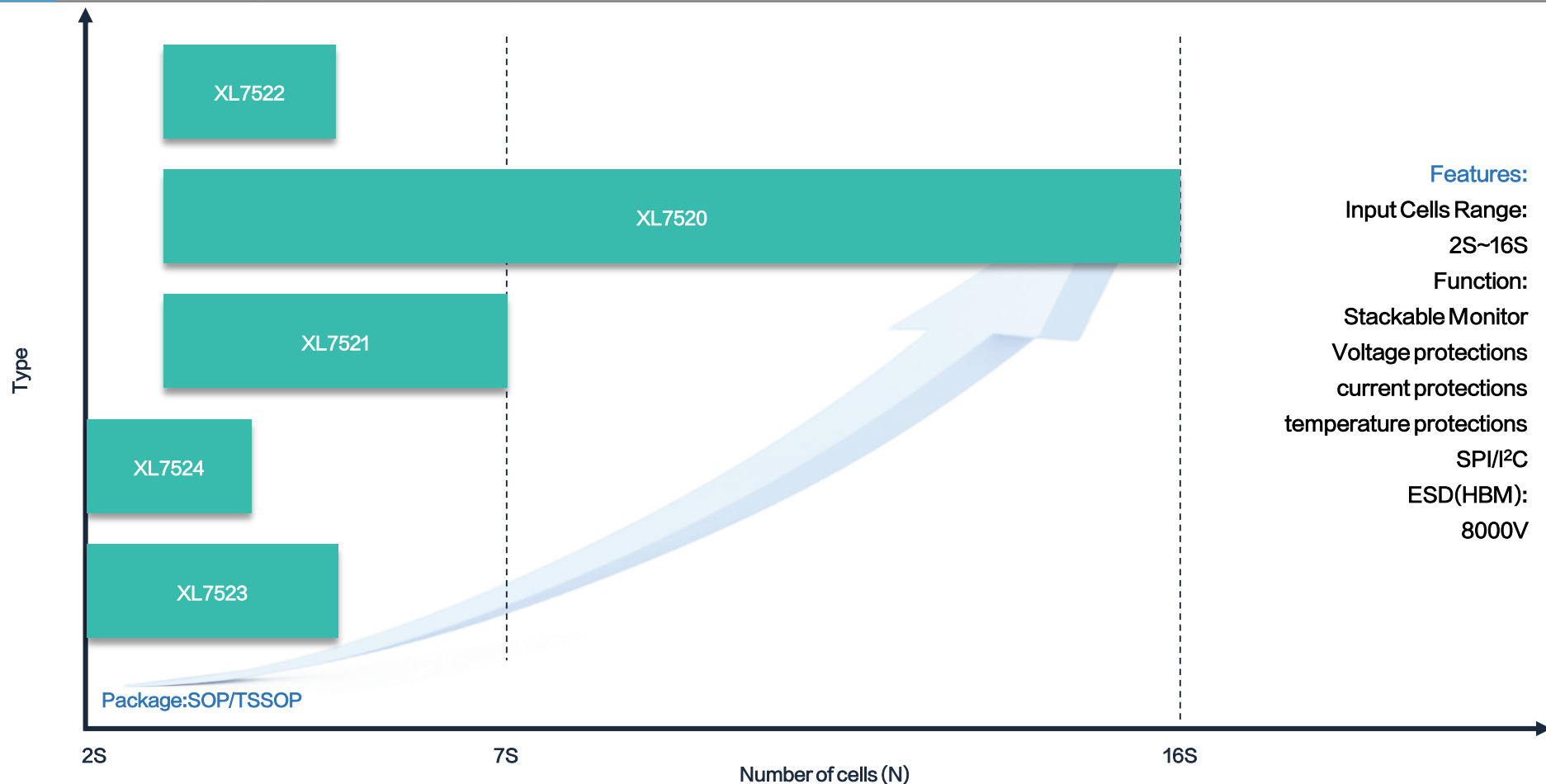


Part Number	Cells	Balancing Current	Efficiency	Package	Features	Status
XL7600	2S	2A	92%	SOT23-6 DFN2*2-8	EN	PREVIEW
XL7601	3S	2A	92%	QFN3*3-16	EN	PREVIEW
XL7602	4S	2A	92%	QFN4*4-24	EN	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。

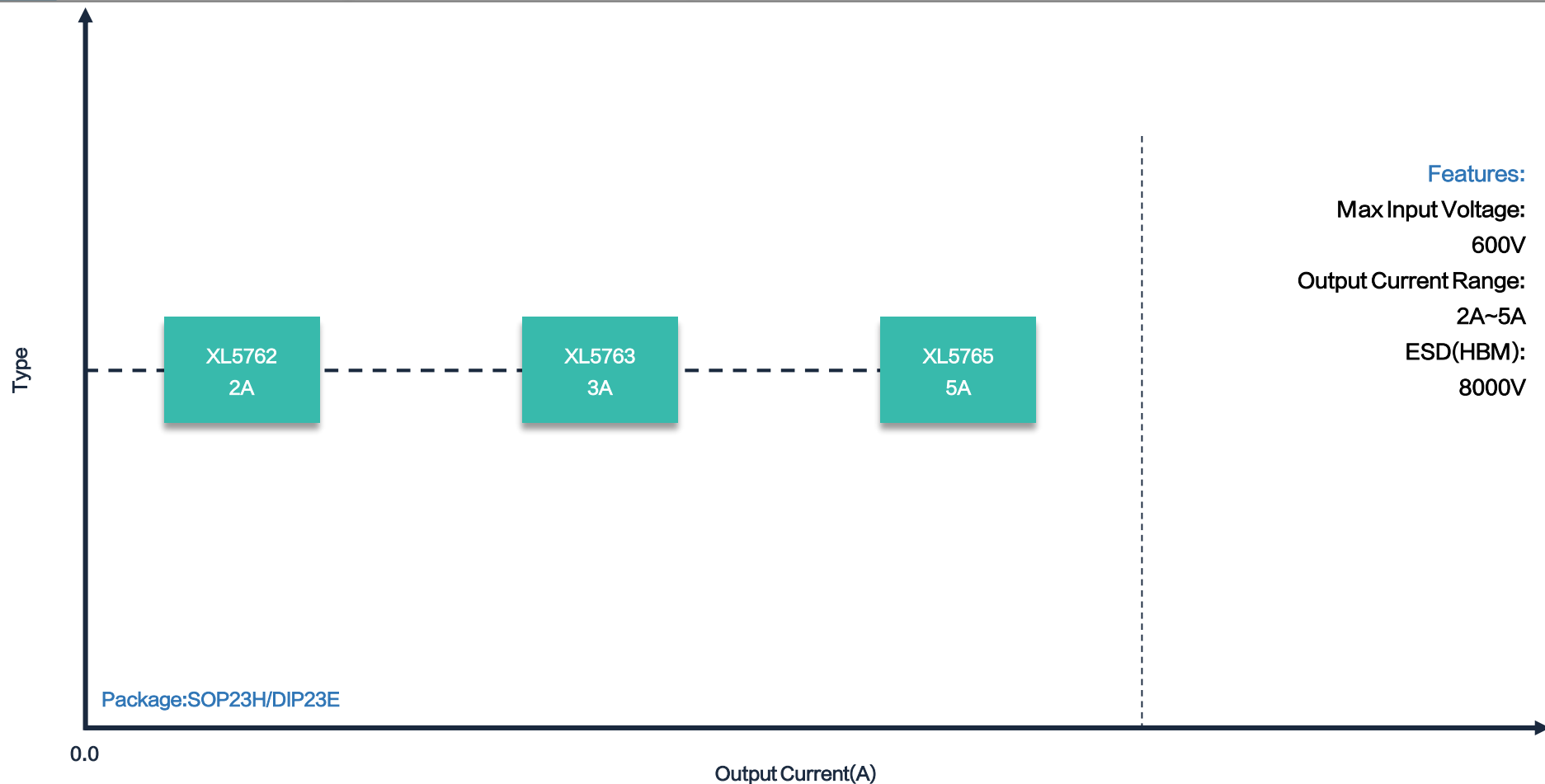
BMS – 电池保护器路线图

BMS – Battery Protectors Roadmap



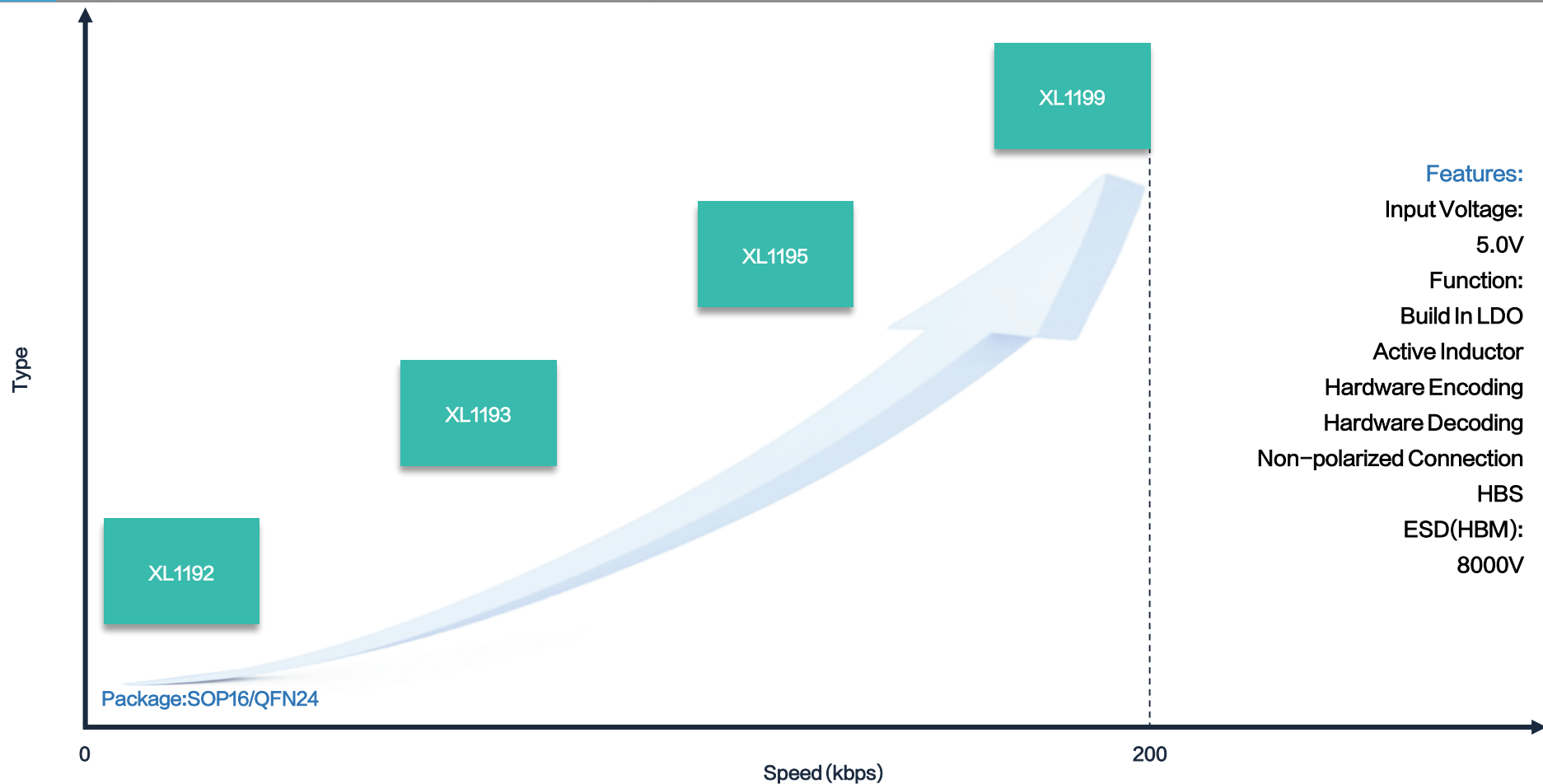
Part Number	Vin	Cells	Package	Features	Status
XL7520	9~80V	3~16S	TSSOP-24	Open wire, FET drive OVP, UVLO, OTP	PREVIEW
XL7521	5~40V	3~7S	SOP16	Open wire, FET drive OVP, UVLO, OTP	PREVIEW
XL7522	3~25V	3~5S	TSSOP20	FET drive	PREVIEW
XL7523	3~25V	2~5S	SOP8	Open wire, FET drive	PREVIEW
XL7524	3~20V	2~4S	SOP8	Open wire	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。



Part Number	Vin	Current	Internal resistance	BSD	NTC	Package	Status
XL5762	600V	2A	3R	Y	Y	SOP-23H DOP-23E	PREVIEW
XL5763	600V	3A	2R	Y	Y	SOP-23H DOP-23E	PREVIEW
XL5765	600V	5A	1R	Y	Y	SOP-23H DOP-23E	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。



Part Number	Vin	Input Current	Data Rates	Distance	Package	Features	Status
XL1191	5V	70mA	57.6kbps	1000m	QFN3*3-16	Non-polarized connection	ACTIVE
XL1192A	5V	70mA	9.6kbps	1000m	SOP16	Non-polarized connection	ACTIVE
XL1192S	5V	70mA	9.6kbps	1000m	SOP16	Non-polarized connection	ACTIVE
XL1192D	5V	70mA	9.6kbps	1000m	DIP16	Non-polarized connection	ACTIVE
XL1193	5V	70mA	9.6kbps	1000m	SOP16	No codec required	ACTIVE
XL1195	5V	70mA	57.6kbps	1000m	SOP16	Non-polarized connection	ACTIVE
XL1196	5V	70mA	200kbps	1000m	QFN4*4-24	Active Inductor	PREVIEW
XL1197	5V	120mA	200kbps	1000m	QFN4*4-24	Active Inductor LDO	PREVIEW
XL1199	5V	120mA	200kbps	1000m	QFN4*4-24	Active Inductor LDO	PREVIEW

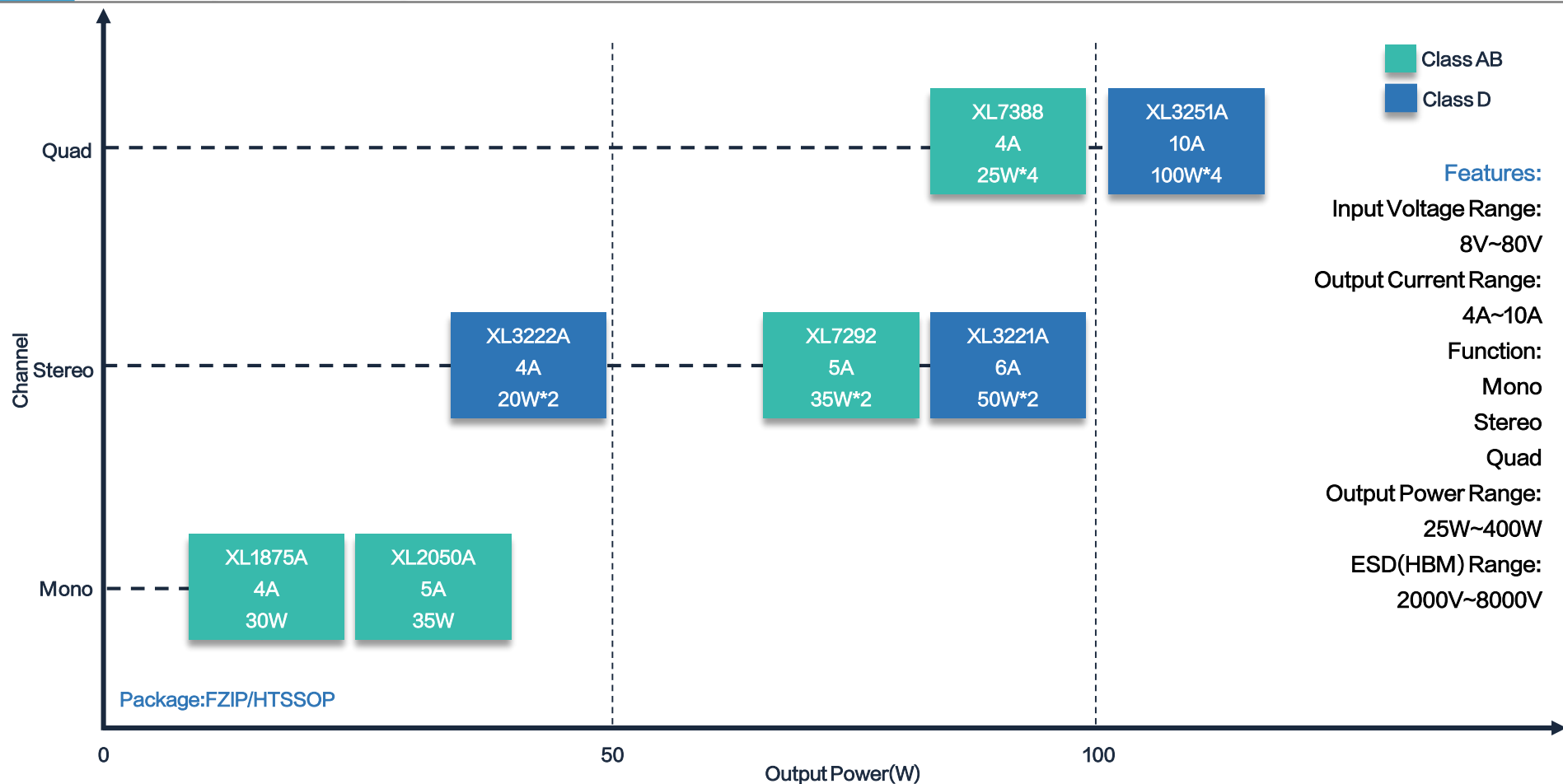
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音频功放路线图

Audio Amplifiers Roadmap

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Class AB
Class D

Features:

Input Voltage Range:

8V~80V

Output Current Range:

4A~10A

Function:

Mono

Stereo

Quad

Output Power Range:

25W~400W

ESD(HBM) Range:

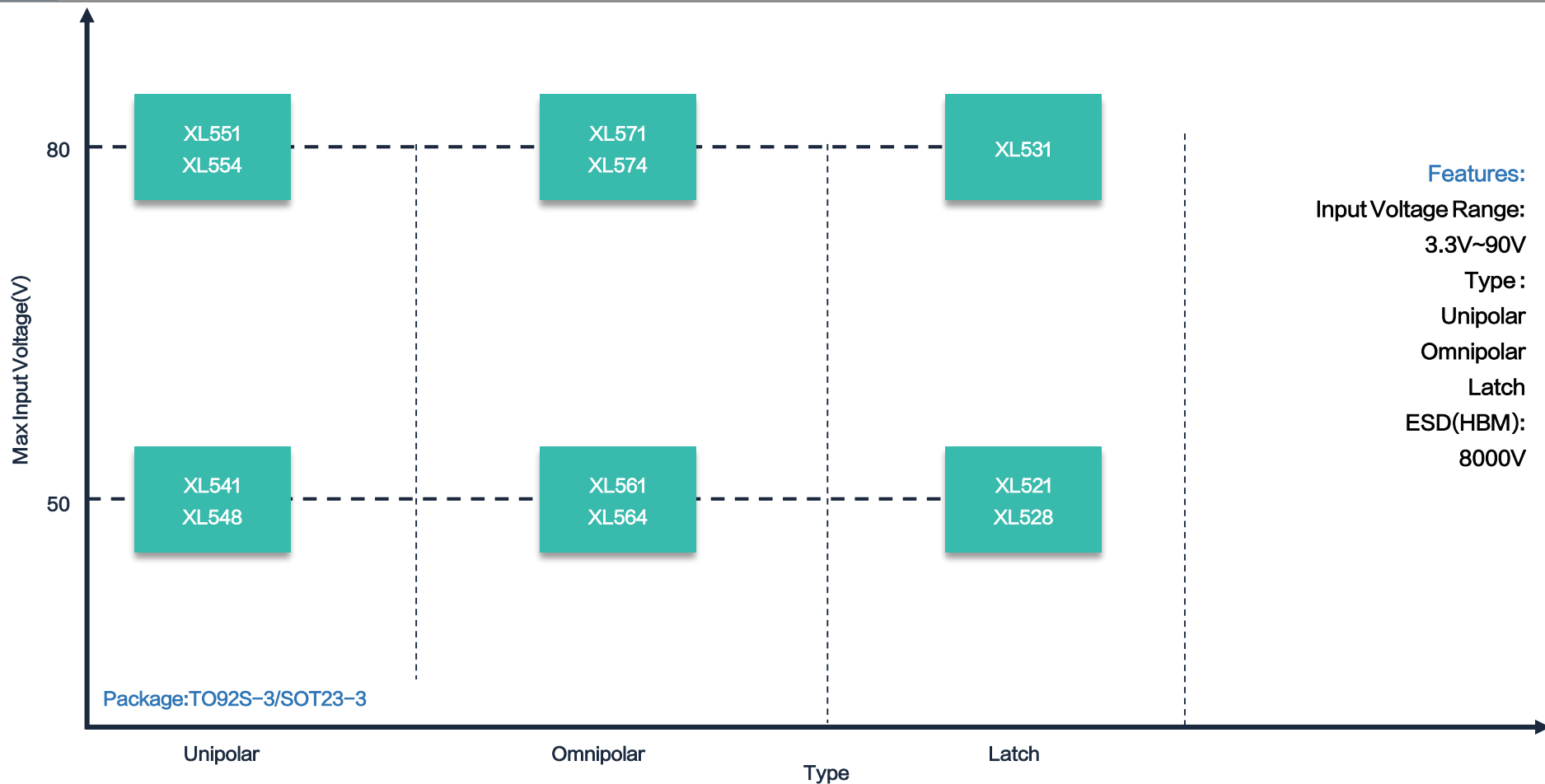
2000V~8000V

Part Number	Power	Vin	IQ(Typ)	Limit Current	Load	THD+N	Channel	Mute	Standby	Package	Status
XL1875A	30W	16~60V	20mA	4A	4R/8R	0.015%	Mono	×	×	TO220B-5L	ACTIVE
XL2050A	35W	16~60V	30mA	5A	4R/8R	0.015%	Mono	×	×	TO220B-5L	ACTIVE
XL7292	35W*2	16~40V	30mA	5A	4R/8R	0.020%	Stereo	✓	✓	FZIP11	ACTIVE
XL7388	25W*4	8~40V	60mA	4A	4R/8R	0.015%	Quad	✓	✓	FZIP25	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。

Part Number	Power	Vin	Standby Power Loss	Limit Current	Load	THD+N	Channel	Mute	Standby	Package	Status
XL3221A	50W*2	8~40V	0.1W	6A	4R	1%	Stereo	✓	✓	HTSSOP44	PREVIEW
XL3222A	20W*2	8~40V	0.1W	4A	4R	1%	Stereo	✓	✓	HTSSOP28	PREVIEW
XL3251A	100W*4	8~40V	0.1W	10A	4R	1%	Quad	✓	✓	HTSSOP44	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。



Part Number	Type	Vin	Operating Point	Releasing Point	Hysteresis	Package	Status
XL531 ^{HOT!}	Latch	3.3~90V	55Gs	-55Gs	110Gs	TO92S-3	ACTIVE
XL521	Latch	3.3~45V	60Gs	-60Gs	120Gs	TO92S-3	ACTIVE
XL522	Latch	3.3~45V	60Gs	-60Gs	120Gs	SOT23-3	ACTIVE
XL524	Latch	3.3~45V	80Gs	-80Gs	160Gs	SOT23-3	PREVIEW
XL525	Latch	3.3~45V	110Gs	-110Gs	220Gs	TO92S-3	ACTIVE
XL526	Latch	3.3~45V	100Gs	-100Gs	200Gs	SOT23-3	ACTIVE
XL528	Latch	3.3~45V	90Gs	-90Gs	180Gs	SOT23-3	ACTIVE
XL532	Latch	3.3~80V	-55Gs	55Gs	110Gs	SOT23-3	PREVIEW
XL533	Latch	3.3~80V	55Gs	-55Gs	110Gs	SOT89-3	PREVIEW

Part Number	Type	Vin	Operating Point	Releasing Point	Hysteresis	Package	Status
XL541	Unipolar	3.3~45V	45Gs	25Gs	20Gs	TO92S-3	PREVIEW
XL542	Unipolar	3.3~45V	70Gs	50Gs	20Gs	SOT23-3	ACTIVE
XL543	Unipolar	3.3~45V	55Gs	25Gs	30Gs	TO92S-3	PREVIEW
XL546	Unipolar	3.3~50V	-100Gs	-55Gs	45Gs	SOT23-3	PREVIEW
XL548	Unipolar	3.3~50V	-130Gs	-90Gs	40Gs	SOT23-3	PREVIEW
XL551	Unipolar	3.3~80V	100Gs	50Gs	50Gs	TO92S-3	PREVIEW
XL552	Unipolar	3.3~80V	-100Gs	-50Gs	50Gs	SOT23-3	PREVIEW
XL553	Unipolar	3.3~80V	120Gs	80Gs	40Gs	TO92S-3	PREVIEW
XL554	Unipolar	3.3~80V	-120Gs	-80Gs	40Gs	SOT23-3	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。

Part Number	Type	Vin	Operating Point	Releasing Point	Hysteresis	Package	Status
XL557	Unipolar	3.3~45V	135Gs	65Gs	70Gs	TO92S-3	ACTIVE
XL558	Unipolar	3.3~45V	135Gs	65Gs	70Gs	SOT23-3	ACTIVE

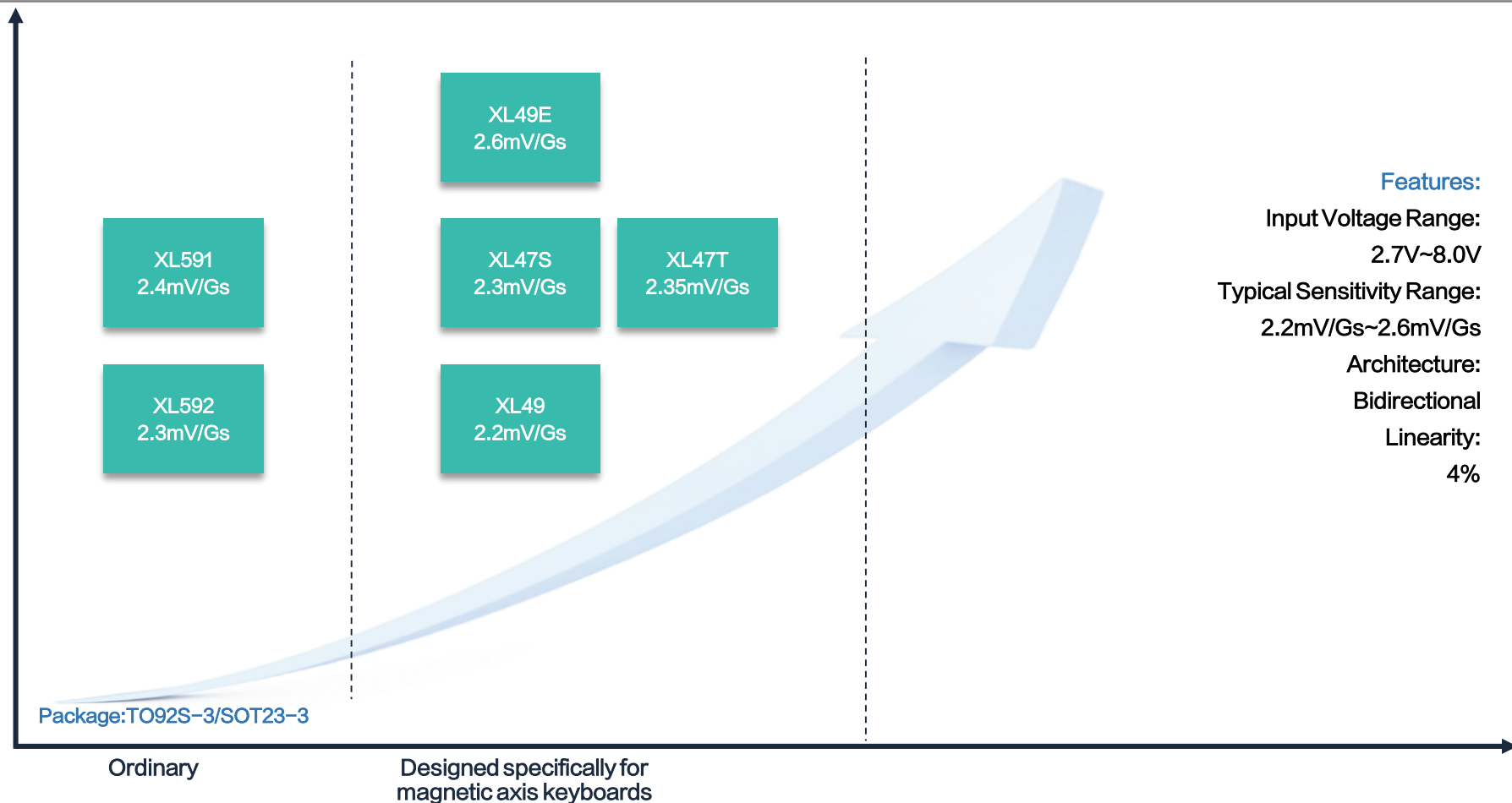
“蓝色字体” 为在研产品，具体参数以产品规格书为准。

Part Number	Type	Vin	Operating Point	Releasing Point	Hysteresis	Package	Status
XL561	Omnipolar	3.3~45V	± 75Gs	± 35Gs	40Gs	TO92S-3	ACTIVE
XL562	Omnipolar	3.3~45V	± 90Gs	± 60Gs	30Gs	SOT23-3	PREVIEW
XL563	Omnipolar	3.3~80V	± 100Gs	± 50Gs	50Gs	TO92S-3	PREVIEW
XL564	Omnipolar	3.3~80V	± 100Gs	± 50Gs	50Gs	SOT23-3	PREVIEW
XL565	Omnipolar	3.3~45V	± 75Gs	± 45Gs	30Gs	TO92S-3	ACTIVE
XL566	Omnipolar	3.3~45V	± 80Gs	± 60Gs	20Gs	SOT23-3	ACTIVE
XL571	Omnipolar	3.3~80V	± 90Gs	± 60Gs	30Gs	TO92S-3	PREVIEW
XL572	Omnipolar	3.3~80V	± 90Gs	± 60Gs	30Gs	SOT23-3	PREVIEW
XL573	Omnipolar	3.3~80V	± 100Gs	± 50Gs	50Gs	TO92S-3	PREVIEW
XL574	Omnipolar	3.3~80V	± 100Gs	± 50Gs	50Gs	SOT23-3	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。

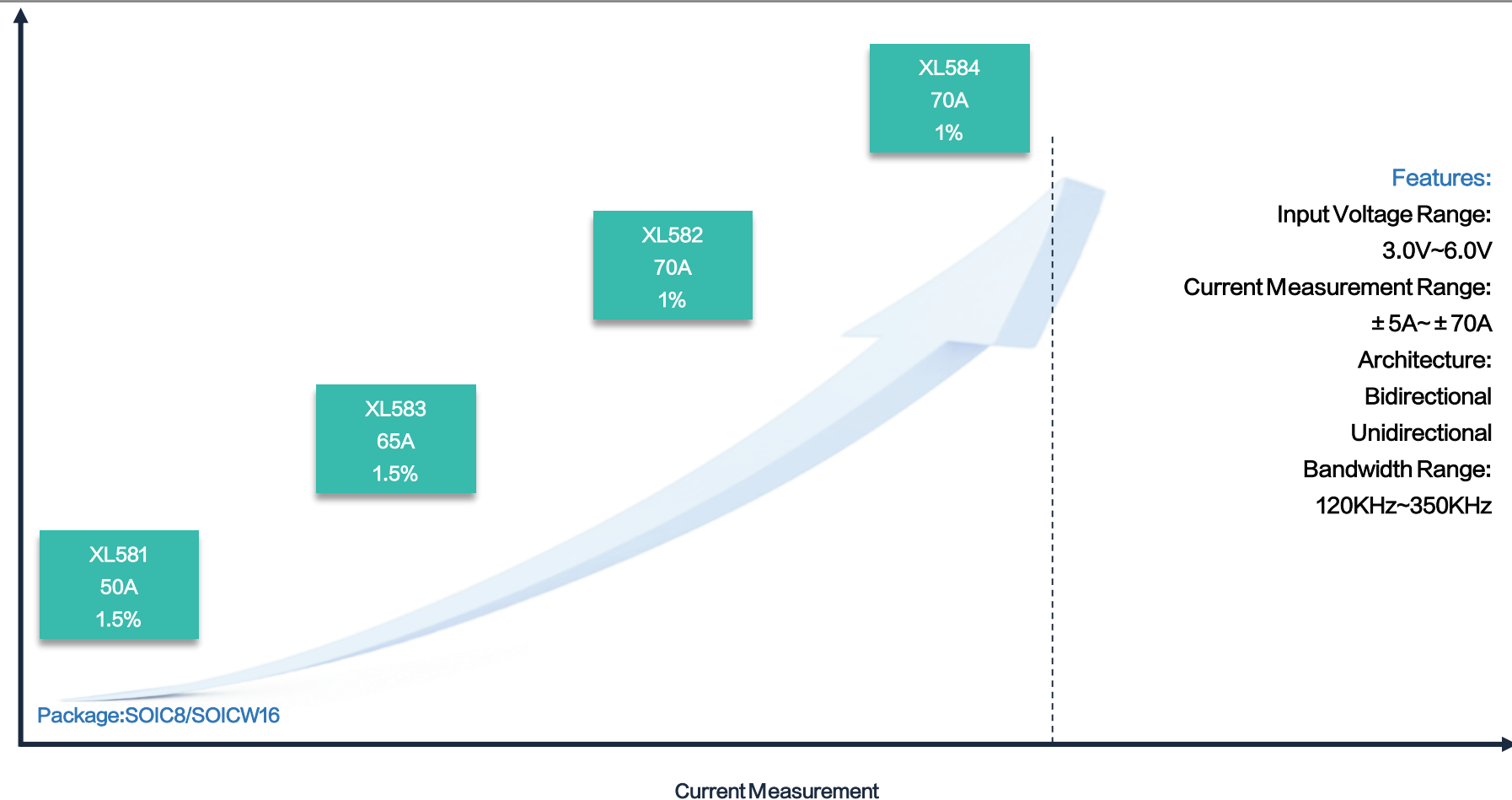
霍尔传感器 – 线性霍尔传感器路线图

Hall Sensors – Linear Hall Sensors Roadmap



Part Number	Architecture	Vin	Operation Current	Typical Sensitivity	Linearity	Quiescent Voltage	Package	Status
XL49 ^{HOT!}	Bidirectional	2.7~8V	1.4mA	2.2mV/Gs	4%	2.05V@VDD=3.3V	SOT23-3	ACTIVE
XL49E ^{HOT!}	Bidirectional	2.7~8V	1.4mA	2.6mV/Gs	4%	2.0V@VDD=3.3V	SOT23-3	ACTIVE
XL47S ^{HOT!}	Bidirectional	2.7~8V	1.4mA	2.3mV/Gs	4%	50%VDD	SOT23-3	ACTIVE
XL47T ^{HOT!}	Bidirectional	2.7~8V	1.4mA	2.35mV/Gs	4%	50%VDD	TO92S-3	ACTIVE
XL591	Bidirectional	3~8V	6.5mA	2.4mV/Gs	5%	50%VDD	TO92S-3	ACTIVE
XL592	Bidirectional	3~8V	6.5mA	2.3mV/Gs	5%	50%VDD	SOT23-3	ACTIVE
XL48T	Bidirectional	2.7~8V	1.3mA	2.4mV/Gs	4%	50%VDD	TO92S-3	PREVIEW
XL48S	Bidirectional	2.7~8V	1.3mA	2.4mV/Gs	4%	50%VDD	SOT23-3	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。



Part Number	Current Measurement Range	Vin	Maximum Sensitivity Error	Internal Resistance	Response Time	Package	Status
XL581	±5~±50A	3.0~6V	±1.5%	1.2mR	4us	SOIC8	PREVIEW
XL582	±5~±70A	3.0~6V	±1.0%	0.8mR	4us	SOICW16	PREVIEW
XL583	±5~±65A	3.0~6V	±1.5%	1mR	1.2us	SOIC8	PREVIEW
XL584	±5~±70A	3.0~6V	±1.0%	0.8mR	1.2us	SOICW16	PREVIEW

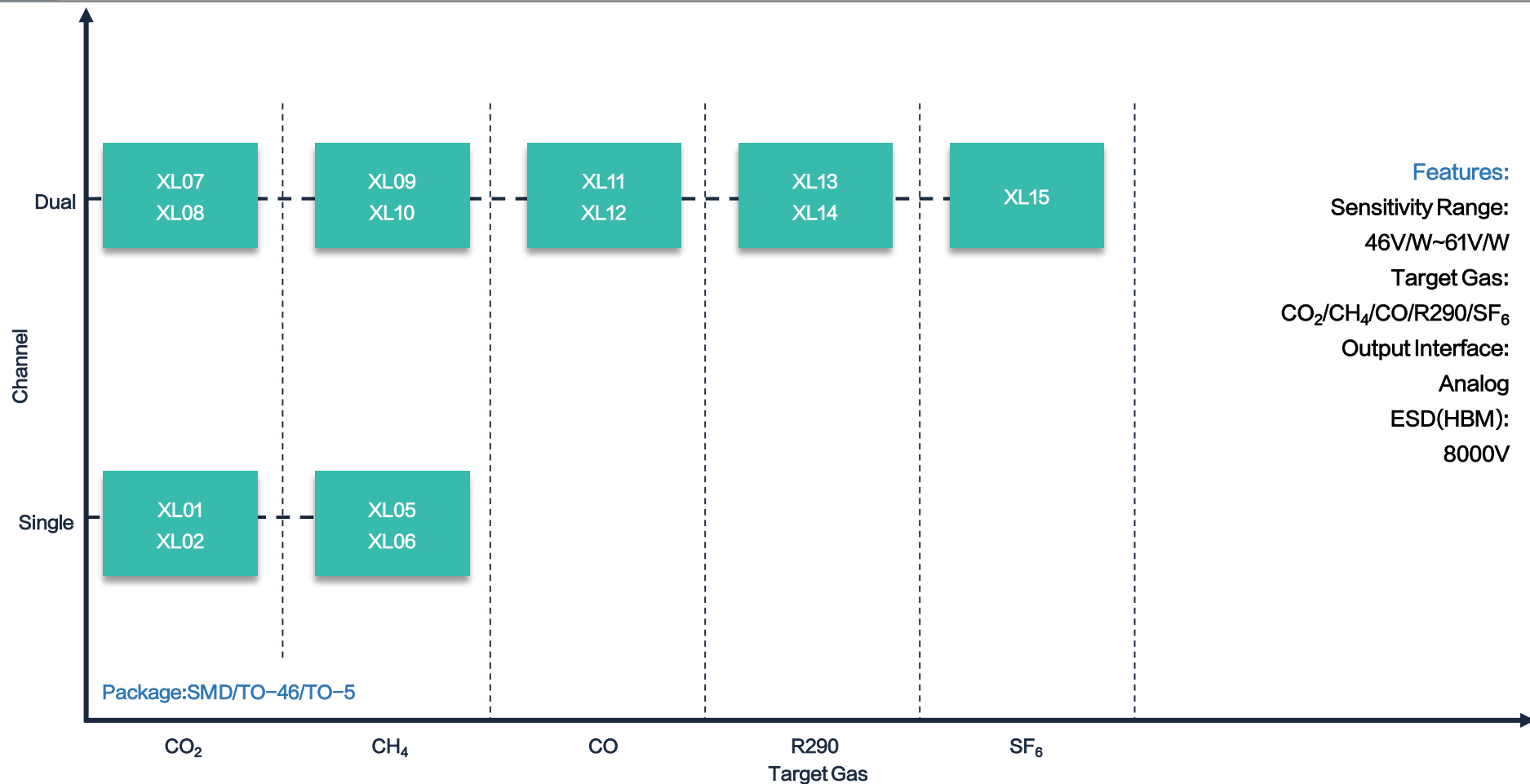
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红外传感器 - 非分光红外型气体探测器路线图

Infrared(IR) Sensors - NDIR Gas Detector Roadmap

XLSEMI

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Professional | Concentration | Pragmatic | Innovation | Efficient | Communication



Features:

Sensitivity Range:

46V/W~61V/W

Target Gas:

CO₂/CH₄/CO/R290/SF₆

Output Interface:

Analog

ESD(HBM):

8000V

红外传感器 – 非分光红外型气体探测器

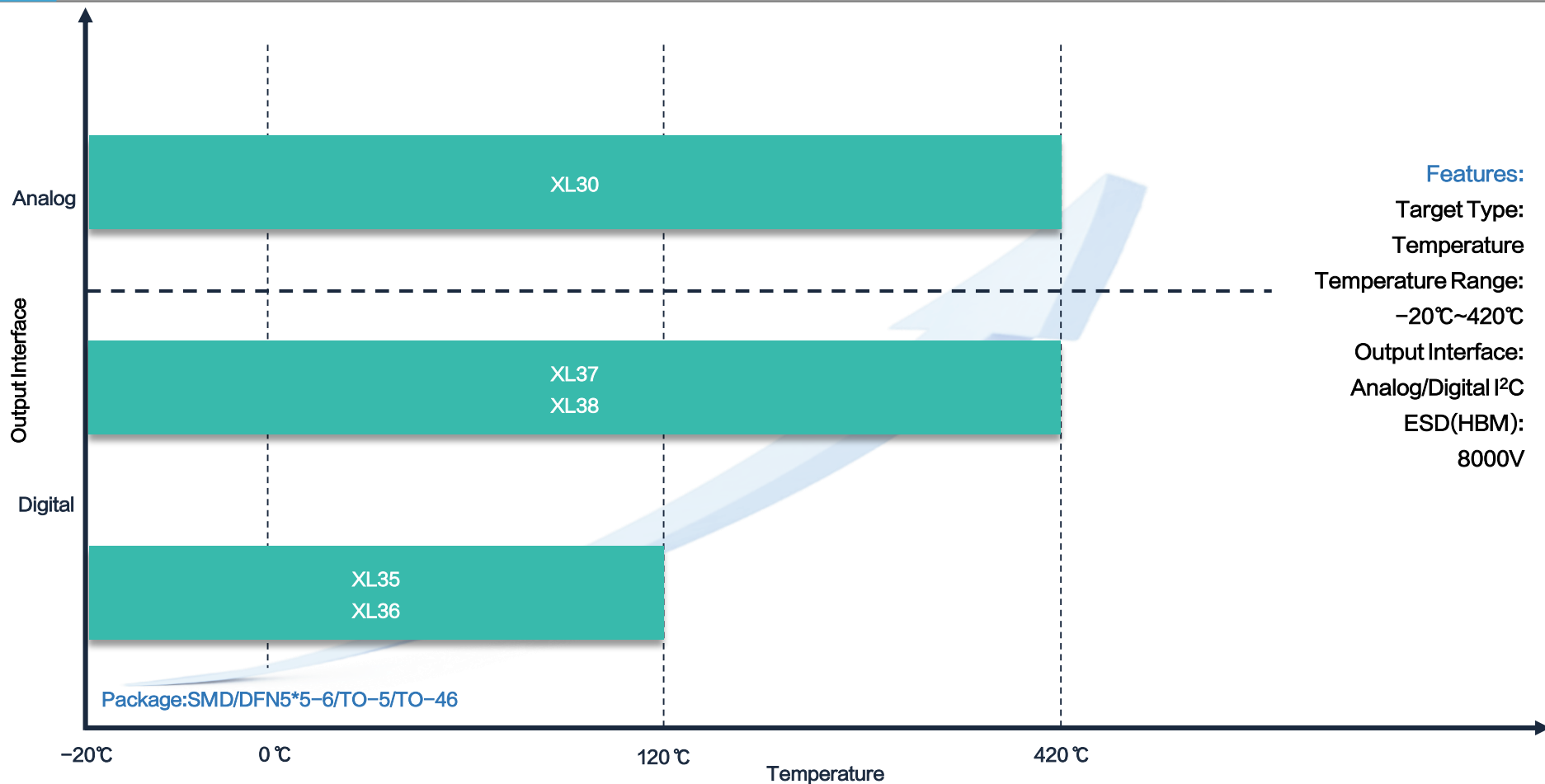
Infrared(IR) Sensors – NDIR Gas Detector

Part Number	Target Type	Sensitivity	D*	Channel	Package	Status
XL01	CO ₂	46V/W	0.9*10 ⁸ Jones	Single	SMD	PREVIEW
XL02	CO ₂	46V/W	0.9*10 ⁸ Jones	Single	TO-46	PREVIEW
XL05	CH ₄	46V/W	0.9*10 ⁸ Jones	Single	SMD	PREVIEW
XL06	CH ₄	46V/W	0.9*10 ⁸ Jones	Single	TO-46	PREVIEW
XL07	CO ₂	61V/W	1.7*10 ⁸ Jones	Dual	SMD	PREVIEW
XL08	CO ₂	61V/W	1.7*10 ⁸ Jones	Dual	TO-5	PREVIEW
XL09	CH ₄	61V/W	1.7*10 ⁸ Jones	Dual	SMD	PREVIEW
XL10	CH ₄	61V/W	1.7*10 ⁸ Jones	Dual	TO-5	PREVIEW
XL11	CO	61V/W	1.7*10 ⁸ Jones	Dual	SMD	PREVIEW
XL12	CO	61V/W	1.7*10 ⁸ Jones	Dual	TO-5	PREVIEW
XL13	R290	61V/W	1.7*10 ⁸ Jones	Dual	SMD	PREVIEW
XL14	R290	61V/W	1.7*10 ⁸ Jones	Dual	TO-5	PREVIEW
XL15	SF ₆	61V/W	1.7*10 ⁸ Jones	Dual	TO-5	PREVIEW

“蓝色字体”为在研产品，具体参数以产品规格书为准。

红外传感器 – 非接触式温度传感器路线图

Infrared(IR) Sensors – Thermopile Sensors for Remote Temperature Measurements Roadmap



Features:

Target Type:

Temperature

Temperature Range:

-20°C~420°C

Output Interface:

Analog/Digital I²C

ESD(HBM):

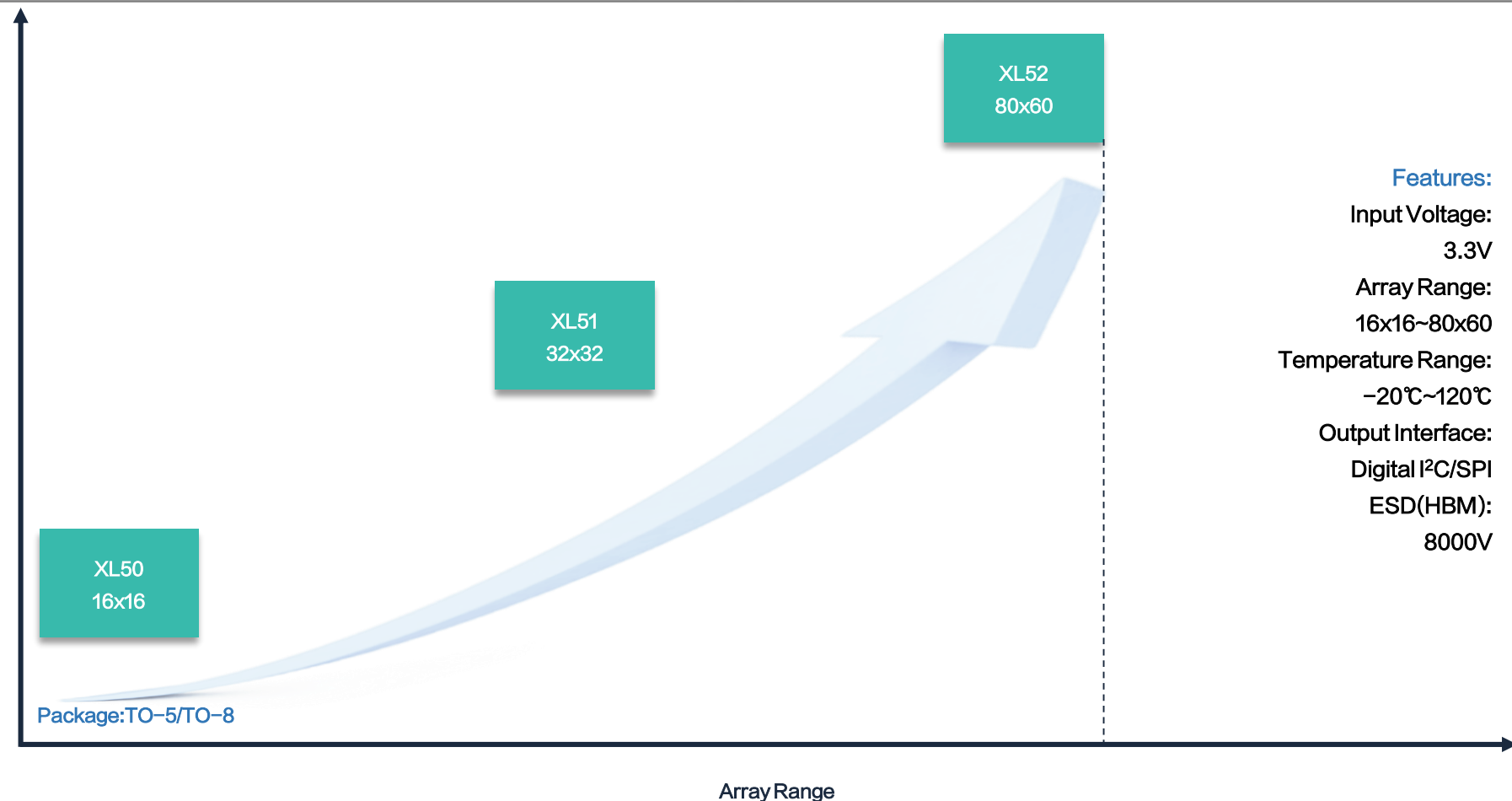
8000V

Part Number	Target Type	Vin	Target Temperature	Output Type	Package	Status
XL30	Temperature	–	–20℃~420℃	Analog	TO-46	PREVIEW
XL35	Temperature	3.2~3.4V	–20℃~120℃	I ² C	SMD	PREVIEW
XL36	Temperature	3.2~3.4V	–20℃~120℃	I ² C	DFN5*5–6	ACTIVE
XL37	Temperature	3.2~3.4V	–20℃~420℃	I ² C	TO-5	PREVIEW
XL38	Temperature	3.2~3.4V	–20℃~420℃	I ² C	TO-5	PREVIEW

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红外传感器 - 非制冷红外热电堆阵列探测器路线图

Infrared(IR) Sensors - Uncooled Infrared Thermopile Array Detector Roadmap

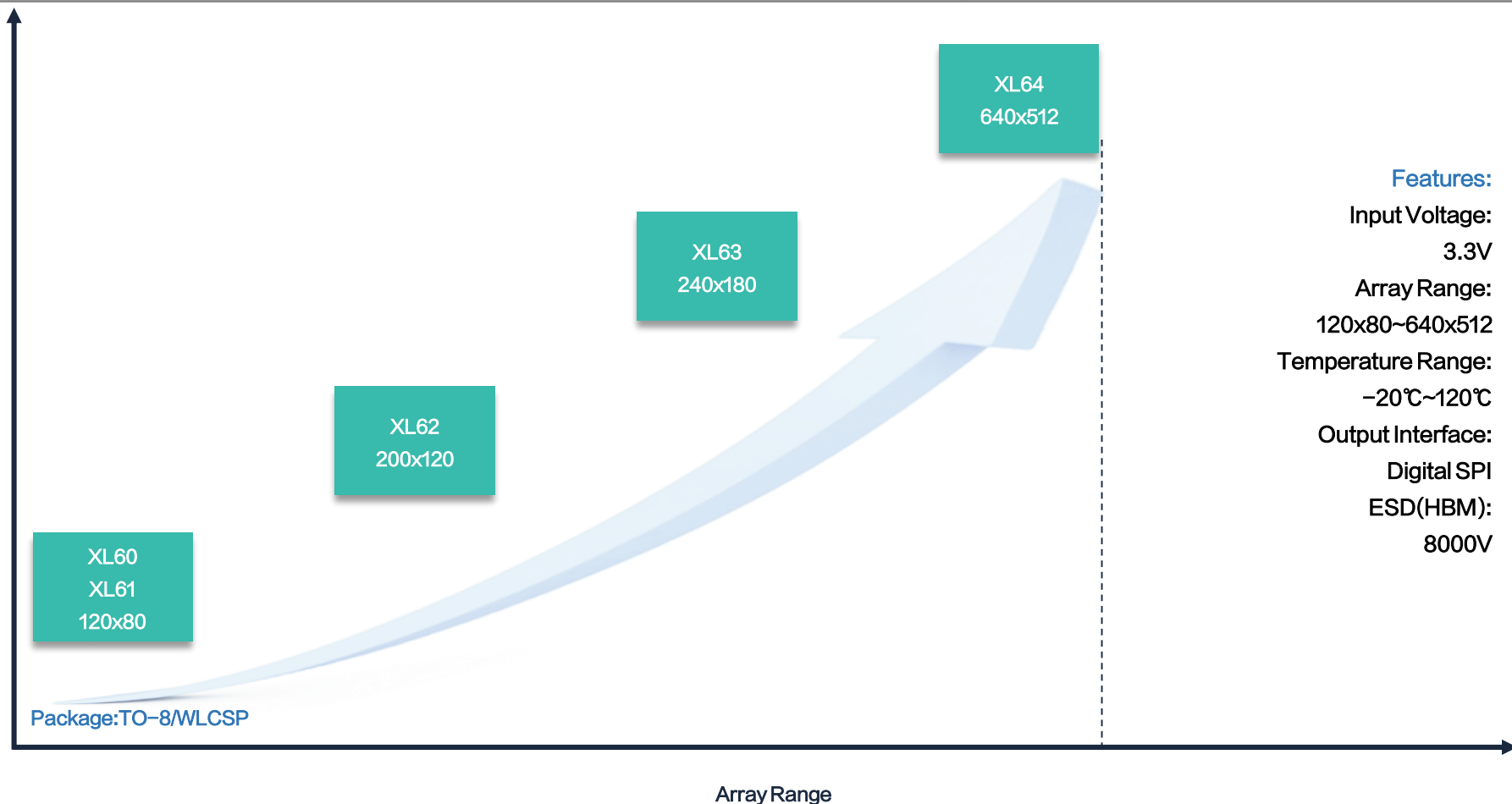


Part Number	Target Type	Array	Vin	Output Type	Package	Status
XL50	Thermal Imaging	16x16	3.3V	I ² C	TO-5	PREVIEW
XL51	Thermal Imaging	32x32	3.3V	I ² C	TO-5	PREVIEW
XL52	Thermal Imaging	80x60	3.3V	SPI	TO-8	PREVIEW

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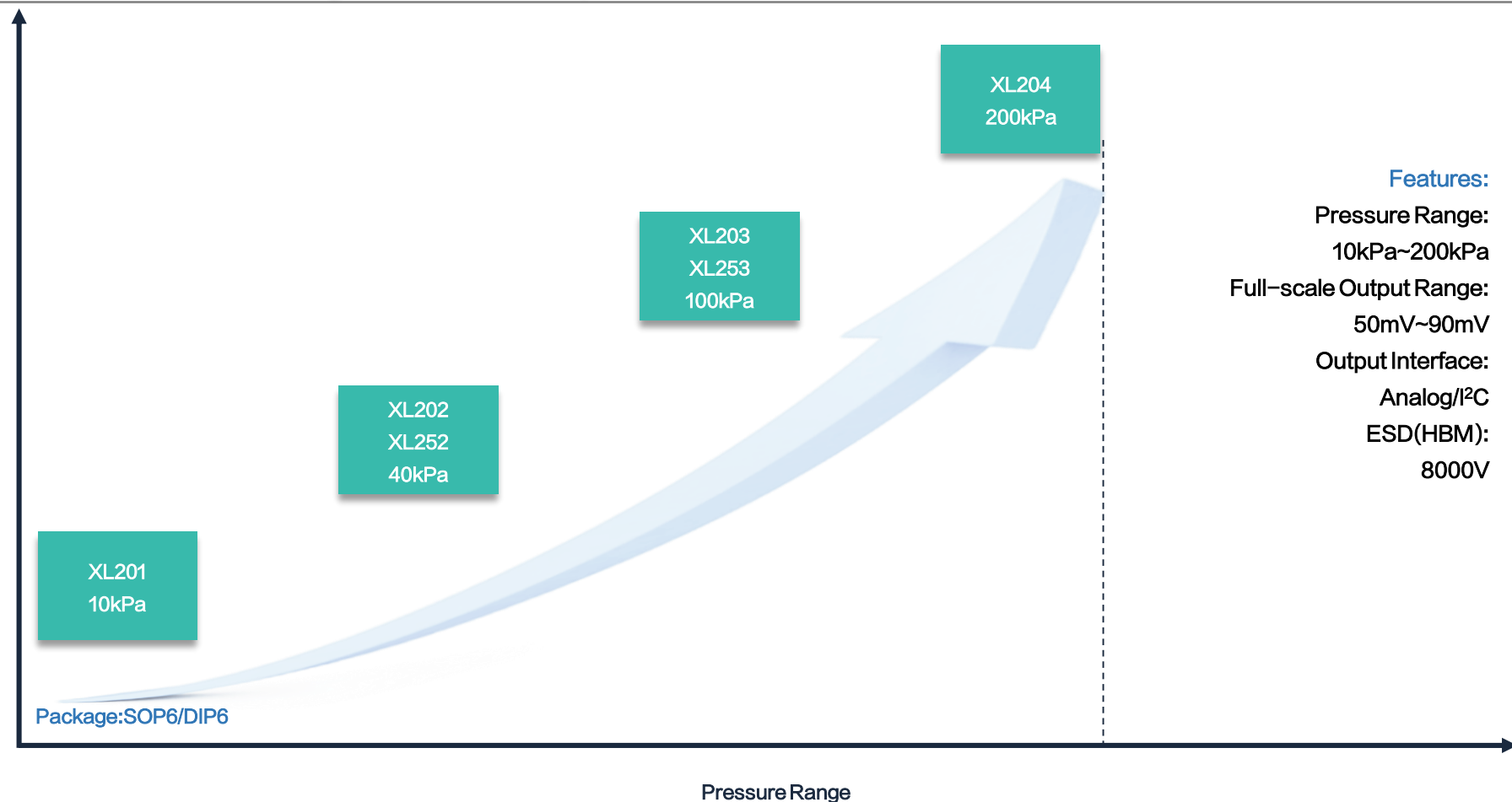
红外传感器 - 非制冷氧化钒红外焦平面探测器路线图

Infrared(IR) Sensors - Uncooled VO_x Infrared Focal Plane Detector Roadmap



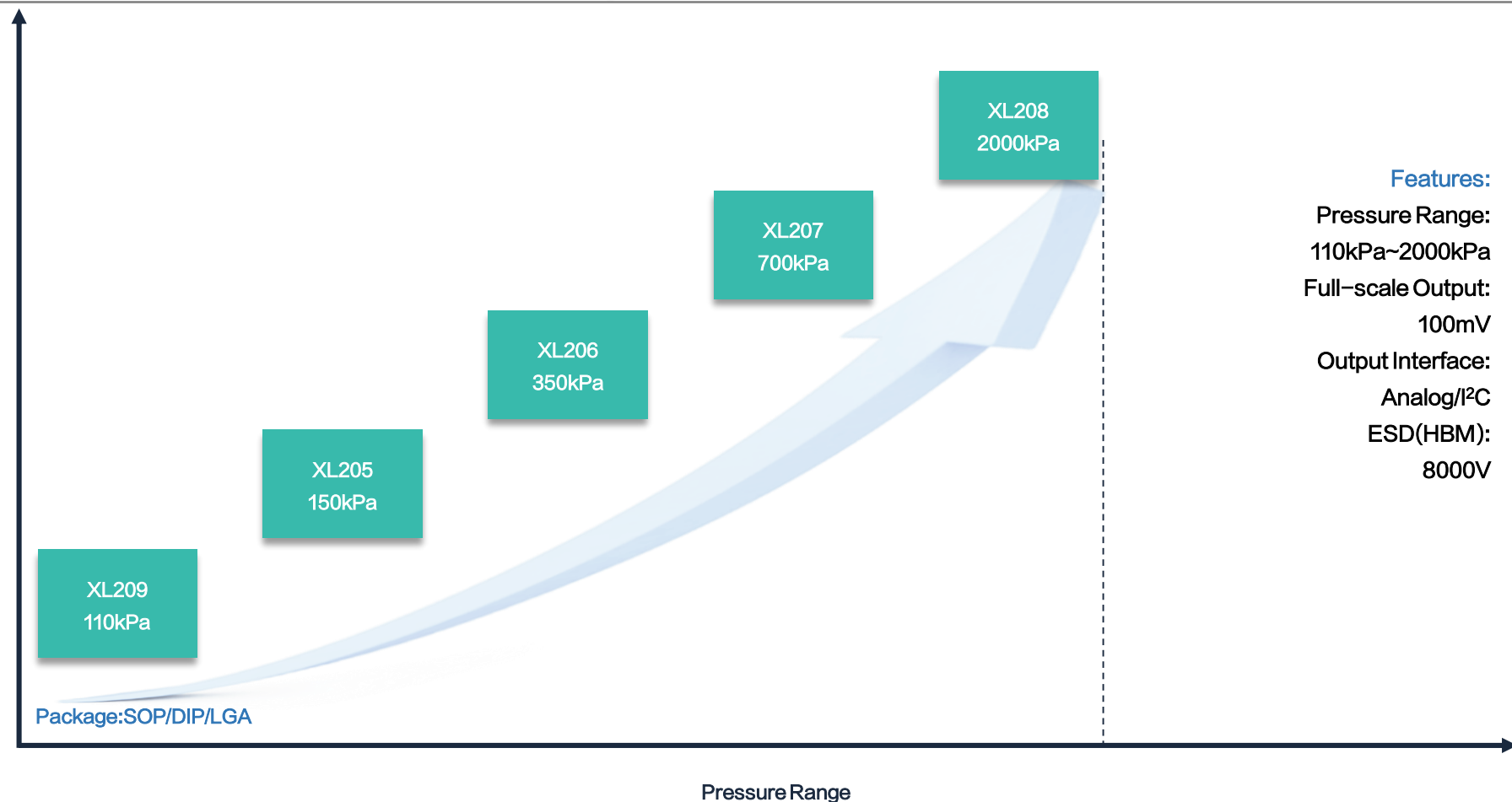
Part Number	Target Type	Array	Vin	Output Type	Package	Status
XL60	Thermal Imaging	120x80	3.3V	SPI	TO-8	PREVIEW
XL61	Thermal Imaging	120x80	3.3V	SPI	WLCSP	PREVIEW
XL62	Thermal Imaging	200x120	3.3V	SPI	WLCSP	PREVIEW
XL63	Thermal Imaging	240x180	3.3V	SPI	WLCSP	PREVIEW
XL64	Thermal Imaging	640x512	3.3V	SPI	WLCSP	PREVIEW

“蓝色字体” 为在研产品，具体参数以产品规格书为准。



Part Number	Pressure Range	Full-Scale Output	Output Type	Package	Status
XL201	10kPa	50mV	Analog	SOP6	PREVIEW
XL202	40kPa	70mV	Analog	SOP6	ACTIVE
XL203	100kPa	70mV	Analog	SOP6	ACTIVE
XL204	200kPa	90mV	Analog	SOP6	PREVIEW
XL251	10kPa	–	I2C	SOP6	PREVIEW
XL252	40kPa	–	I2C	SOP6	ACTIVE
XL253	100kPa	–	I2C	SOP6	ACTIVE

“蓝色字体” 为在研产品，具体参数以产品规格书为准。



Part Number	Pressure Range	Full-Scale Output	Output Type	Package	Status
XL205	150kPa	100mV	Analog	SOP6 DIP6	PREVIEW
XL206	350kPa	100mV	Analog	SOP6 DIP6	PREVIEW
XL207	700kPa	100mV	Analog	LGA SOP8	PREVIEW
XL208	2000kPa	100mV	Analog	LGA SOP8	PREVIEW
XL209	110kPa	/	I ² C	LGA	PREVIEW

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汽车电子

Automotive Electronics

影音娱乐
辅助驾驶
汽车照明
车载电器



工业控制

Industrial Control

楼宇自动化
医疗保健、电机驱动
园艺电动工具
舞台照明、工矿照明



通讯设备

Communication Apparatus

POE交换机
基站天线
远程抄表



消费电子

Consumer Electronics

照明设备
办公设备
EBIKE
清洁设备



家用电器

Household Appliances

家电
小家电
厨卫电器



安防监控

Security Surveillance

监控摄像机
防盗烟雾报警器
可视对讲门铃
智能门锁、智慧消防

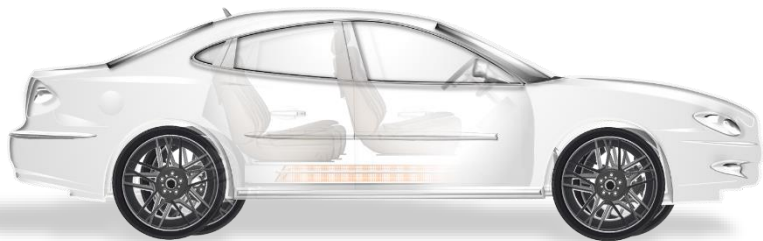


仪器仪表

Instrumentation

热成像仪、控制仪表
电动仪表、气体检测
温度检测、教学仪器
化学光学检测仪表

芯龙技术提供高品质，高可靠性的产品，确保芯片在严苛、恶劣的汽车环境下稳健工作。



影音娱乐

中控屏
音频功放
倒车影像
车载多媒体



辅助驾驶

车载导航仪
行车记录仪
全景360环视系统
HUD
汽车仪表



汽车照明

汽车大灯
汽车尾灯
刹车灯
示廓灯、转向灯
高位制动灯



车载电器

车载冰箱
车载吸尘器
车载逆变器
车载UPS电源
车载空调

芯龙技术助力提升楼宇自动化、工业自动化、电机驱动等领域产品的可靠性和安全性。

楼宇自动化

门窗感应器、闸机控制系统、智能门禁系统、
电梯控制系统

电机驱动

伺服驱动器、步进驱动器



园艺与电动工具

园 艺——割草机、微耕机、农业工具
电动工具——冲击钻、电动螺丝刀、手电钻

工业自动化

工业机器人、不间断电源、自动控制系统

工业照明

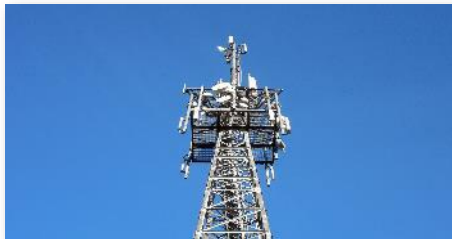
工矿照明、舞台照明、隧道照明、激光

电网基础设施、智能仪表

芯龙技术高功率密度、高耐压、高集成度的产品助力提升客户通讯设备的稳定性与安全性。



POE交换机



基站天线



远程抄表

芯龙技术高品质产品广泛应用于各种照明、娱乐、影音、办公等各种场景的产品，为客户提供高性价比的一站式应用解决方案。



照明设备

住宅照明、户外照明、景观照明、
照明控制

办公用品

办公打印机、扫描设备、验钞机、
碎纸机、投影仪

EBIKE

电动自行车、踏板车、助力电动车、
自平衡交通工具

清洁设备

吸尘器、除螨仪、洗地机、布艺清
洗剂、擦窗机器人、蒸汽拖把、智
能空气净化器、扫地机器人

芯龙技术协助提高厨卫电器、智能家居、空调等产品的性能及竞争力，缩短客户产品开发周期。



家电

空调、新风系统、电视机、
家庭影院



小家电

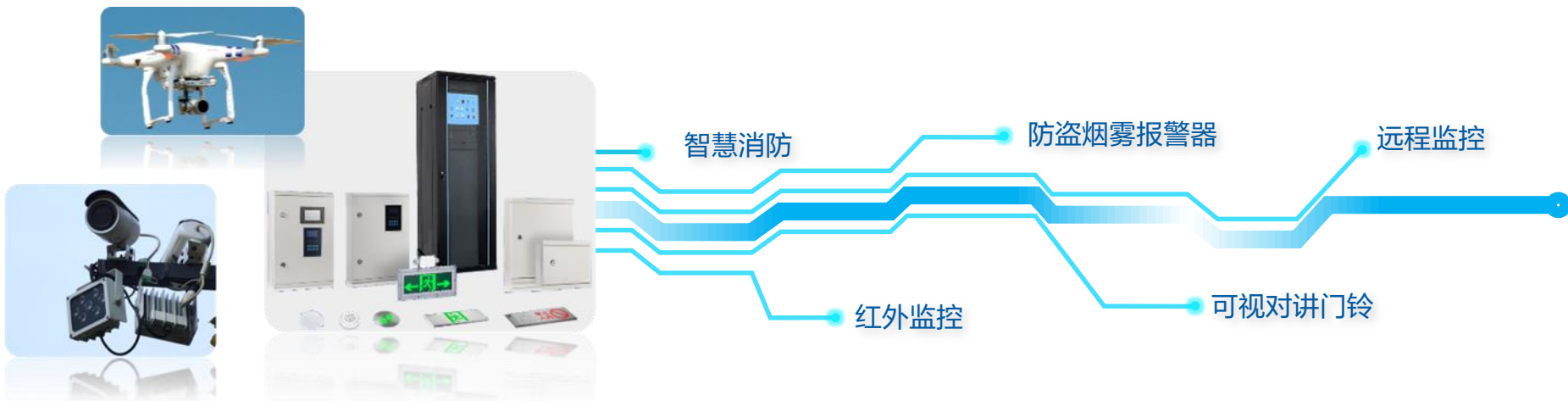
空气净化器、破壁机、咖啡
机、加湿器、养生壶、电烤
箱、料理机



厨卫电器

油烟机、洗衣机、洗碗机、
冰箱、热水器

芯龙技术为监控设备、智慧消防、可视门铃等领域客户提供高品质、高可靠性的产品以及完整的模拟集成电路解决方案。



芯龙技术为客户提供高性价比、高灵敏度和高可靠性的产品与解决方案，协助客户在气体检测、温度检测、控制仪表等领域提升竞争力和创新力。



✓ 汽车电子 Automotive Electronics



✓ 工业控制 Industrial Control



✓ 通讯设备 Communication Apparatus



✓ 消费电子 Consumer Electronics



✓ 家用电器 Household Appliances



✓ 安防监控 Security Surveillance



✓ 仪器仪表 Instrumentation



联系我们

Contact Us

XLSEMI

上海芯龙半导体技术股份有限公司

上海（总部）

地址：中国（上海）自由贸易试验区新金桥路1888号18幢

电话：+86（21）-33822315、33822319

传真：+86（21）-33822313

业务咨询：转8012/8011/8014 分机

技术咨询：转8021/8130/8131分机

邮箱：sales@xlsemi.com

SHANGHAI

Address: Building 18, No. 1888, New Jinqiao Road, Pilot Free Trade Zone,
Shanghai China.

Tel: +86 (21) 33822315/33822319

Fax: +86 (21) 33822313

Business Inquiry: Ext. 8012/8011/8014

Technical consultation: Ext. 8021/8130/8131

E-mail: sales@xlsemi.com

深圳（分公司）

地址：深圳市南山区高新北区朗山路7号南航大厦10A

电话：+86（755）-86134051

SHENZHEN

Address: Room 10A, Avic China Southern Airlines Building, No.7,
Langshan Road, Nanshan district, Shenzhen, China.

Tel: +86 (755) -86134051

谢谢

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Professional | Concentration | Pragmatic | Innovation | Efficient | Communication