

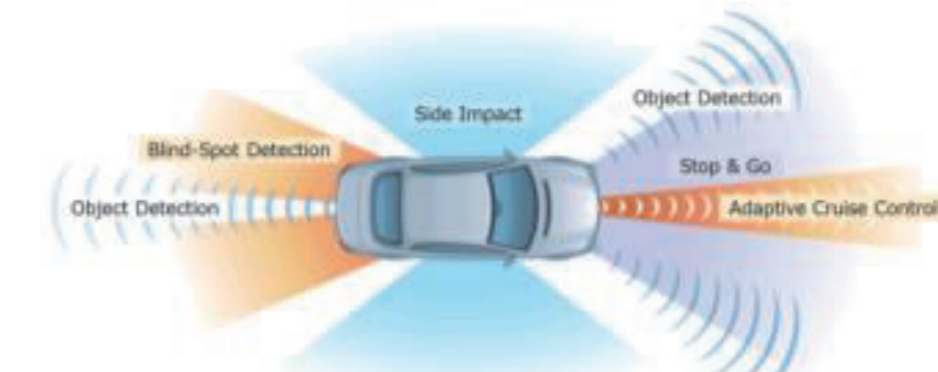
面向ADAS·Autonomous领域的新提案

New Solutions for the ADAS and Autonomous Fields



车载CMOS传感器模块用解决方案

ROHM Solution for Automotive CMOS Sensor Modules



逆接保护用小型Pch-MOSFET

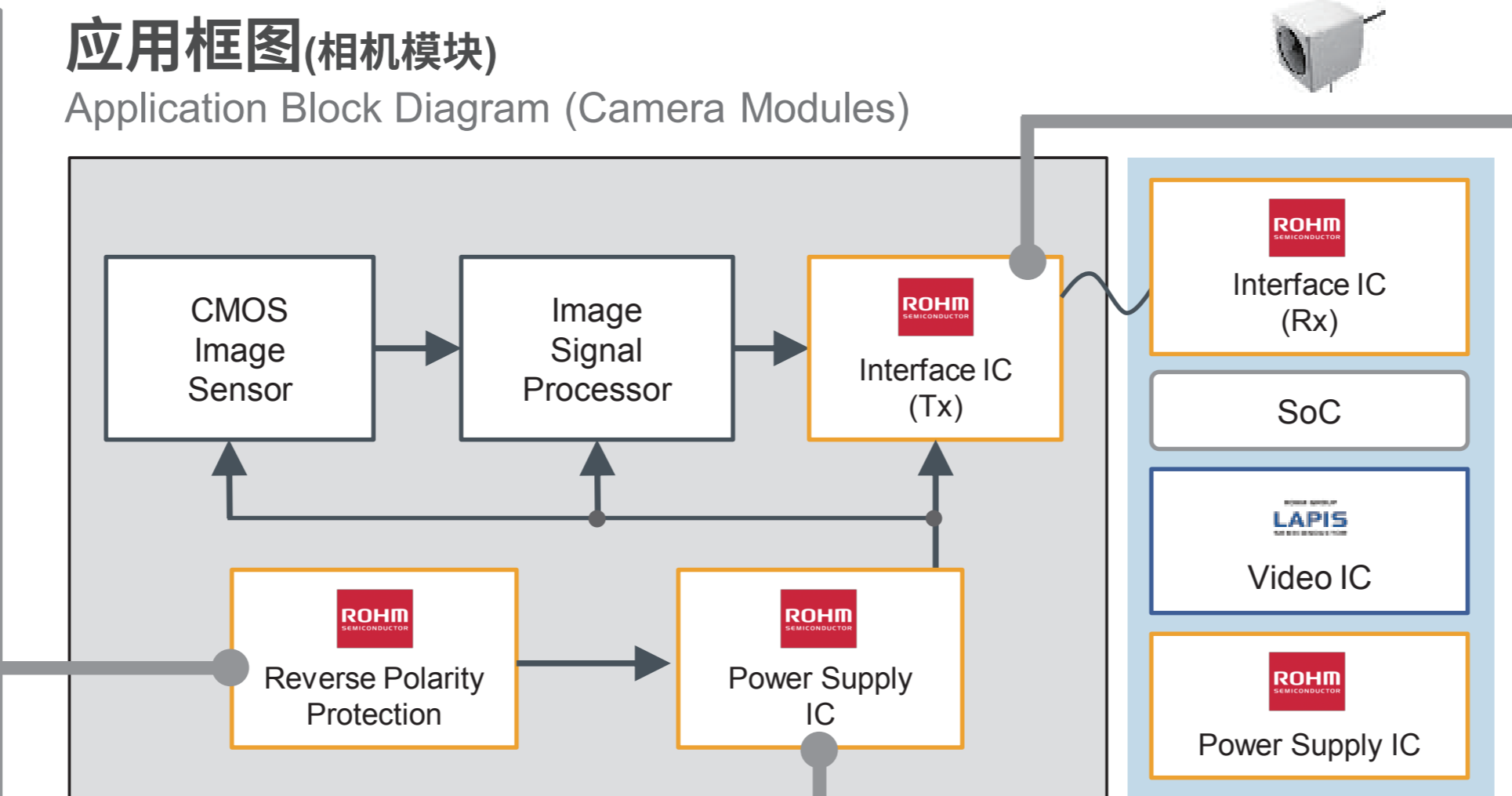
Compact Pch MOSFETs for Reverse Polarity Protection

向二极管
→ Pch MOSFET的切换

Replace the conventional diode with a Pch MOSFET

☆ DFN1616 (1.6mm×1.6mm×0.6mm)

- 更低导通电阻，以抑制电压降和发热现象
Lower ON resistance reduces voltage drops and heat generation
- 最适用于传感器模块的小型DFN封装
Compact DFN package ideal for sensor modules



Clockless Link

- 采用罗姆独有的CDR方式，为省线化和低噪音化做出贡献
Utilizing ROHM's original CDR system contribute to line saving and low noise
- 通过1对传送，实现高速、长距离传送
High-speed, long-range single-pair transmission

Part No.	Tx / Rx	Clock Frequency (MHz)	Input Type	Output Type	Power Supply (V)	Ta (°C)	Package
☆ BU18TM41	Tx	10 to 100	MIPI-CSI2 1.5G 4lane	Clockless-BD (1lane)	1.8	-40 to +105	VQFN32
☆ BU18T121		10 to 174	LVCOS 14bit (ROW12)	Clockless-BD (1lane)	1.8		VQFN32
☆ BU18RM42	Rx	10 to 100	Clockless-BD (2lane)	MIPI-CSI2 1.5G 4lane	1.8 / 3.3		Exposed QFP48V
☆ BU18RM84		10 to 100	Clockless-BD (4lane)	MIPI-CSI2 1.5G 8lane	1.8 / 3.3		Exposed QFP64V

支持HD/FHD 车载摄像头用系统电源

System Power Supply for Automotive HD/FHD Cameras

☆ VQFN32SV5050 (5.0mm×5.0mm×1.0mm)

- 通过扩充系列，将CMOS传感器、ISP、I/F所需的电源进行多种组合，实现供电
Expanded series makes it possible to support various combinations of power supplies for CMOS sensors, ISP, and I/F
- 输入电压范围：5V~18V (最大额定值：24V)
工作温度范围：-40°C ~ +125°C
Input voltage range : 5V to 18V (24V Max.)
Operating temperature range : -40°C to +125°C
- 内置时序功能
Built-in sequence function

■ 内置扩频功能
Built-in Spread Spectrum Clock Generator

小型封装单品电源系列

Compact Single Power Supply Lineup

- 1ch二次降压开关稳压器
1ch Secondary Buck Switching Regulators
BD9Sx00NXX-C Series
- 超小型封装CMOS LDO稳压器
Ultra-Compact CMOS LDO Regulators
BUxxJA2MNVX-C

☆ VSON2020 (2.0mm×2.0mm×0.6mm)

☆ SSON004R1010 (1.0mm×1.0mm×0.6mm)

在功能安全方面的举措

ROHM's Approach to Functional Safety

- PMIC Concept for ISO26262

开始探讨支持功能安全的系统提案
ROHM proposes system solutions that support functional safety