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Renesas Electronics website: <http://www.renesas.com>

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Renesas Electronics Corporation

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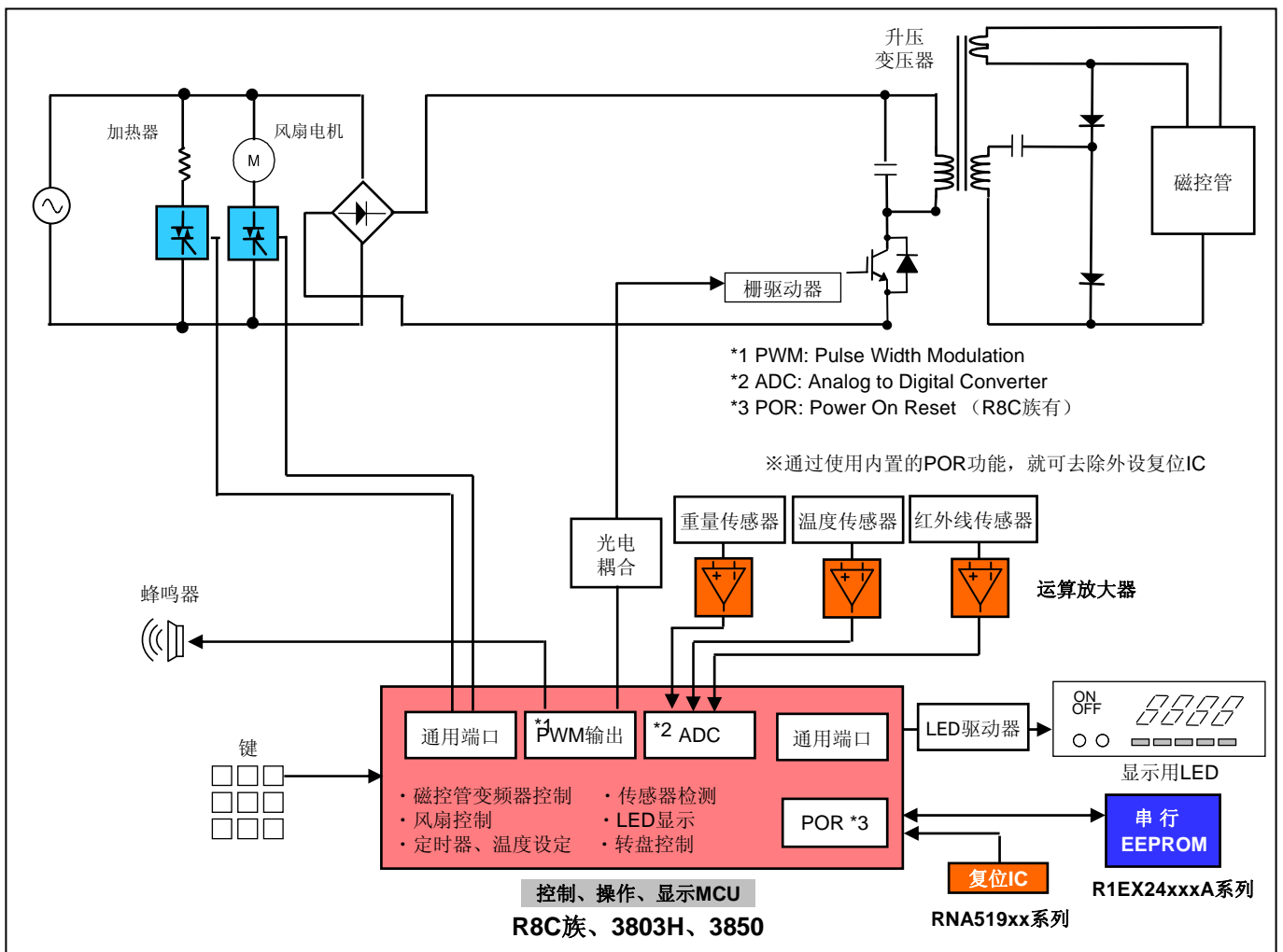
概要

微波炉作为烹调家电迅速发展起来。不单单只是加热食物，还要具有“煮、炸、炒、蒸、发酵”等多种烹饪功能。另外，作为健康家电，能否做出控制盐分和油量的健康菜肴，也成为焦点。为此，使用从温度传感器、红外线传感器、重量传感器等得到的数据，对输出进行精确的控制也越来越重要。从构造上看，微波炉的主输出方面使用了磁控管，受高谐波开关的IGBT向磁控管输送高电压。

瑞萨拥有多个适合微波炉的MCU产品线，如：内置高性能CPU的R8C族、3803H系列、3850系列，集成了IGBT控制用PWM、各种传感器输入用丰富AD转换器等。

系统框图

2009年12月最新信息



所推荐的瑞萨元件

2009年12月最新信息

Block	半导体	推荐产品名	特点等
系统控制	MCU	3803H群	8位通用（无LCD显示）
		3803L群	
		3850A群	
		R8C族	无LCD显示
	38D2群	8位LCD（有LCD显示）	
	EEPROM	R1EX24xxxA系列	I ² C总线接口
功率器件	双向晶闸管	BCR-1AM-8	箱内灯
PFC电源	PFC IC	R2A20114	连续模式 交错
		R2A20115	连续模式 单一
		R2A20111	
		R2A20108	
		R2A20117	临界模式 交错
		R2A20112	
	MOS FET	RJK60xx	
MCU外围	复位IC	RNA51957	检测电压可变
通用浪涌吸收电路保护等	齐纳二极管	RKZxxKG系列	2引脚表贴封装 最适合高ESD时浪涌吸收用
		HZMxNB系列	3引脚（内有一个元件）表贴封装 最适合高ESD时浪涌吸收用
		HZ/HZS系列	2引脚玻璃插入式外形 最适合高ESD时浪涌吸收用
	开关二极管	HSU119/ HSC119	2引脚表贴封装
		HSM2838C, HSM123	3引脚（内有两个元件）表贴封装
		1S2076, 1SS119	2引脚玻璃插入式外形
	肖特基势垒二极管	HRC0103C	2引脚表贴封装（低VF，低漏电流）
		HRB0502A	3引脚表贴封装（低VF）
		HRV103B	2引脚小型表贴封装（I _o =1A）
		RKR104BKH	最适合低IR时的电流保护用

相关应用手册/参考代码

名称	文档编号
R2A20114应用手册	-
R2A20108应用手册	-
R2A20117应用手册	-
R2A20112应用手册	-
R2A20121应用手册	-
功率MOS FET应用手册	REJ05G0001-0200

相关评估板

名称	型号名
R2A20114系列评估板	-
R2A20115评估板	-
R2A20111评估板	-
R2A20108评估板	-
R2A20117评估板	-
R2A20112评估板	-
R2A20121评估板	-

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