

Efficiency. Smart. Cost. Environment

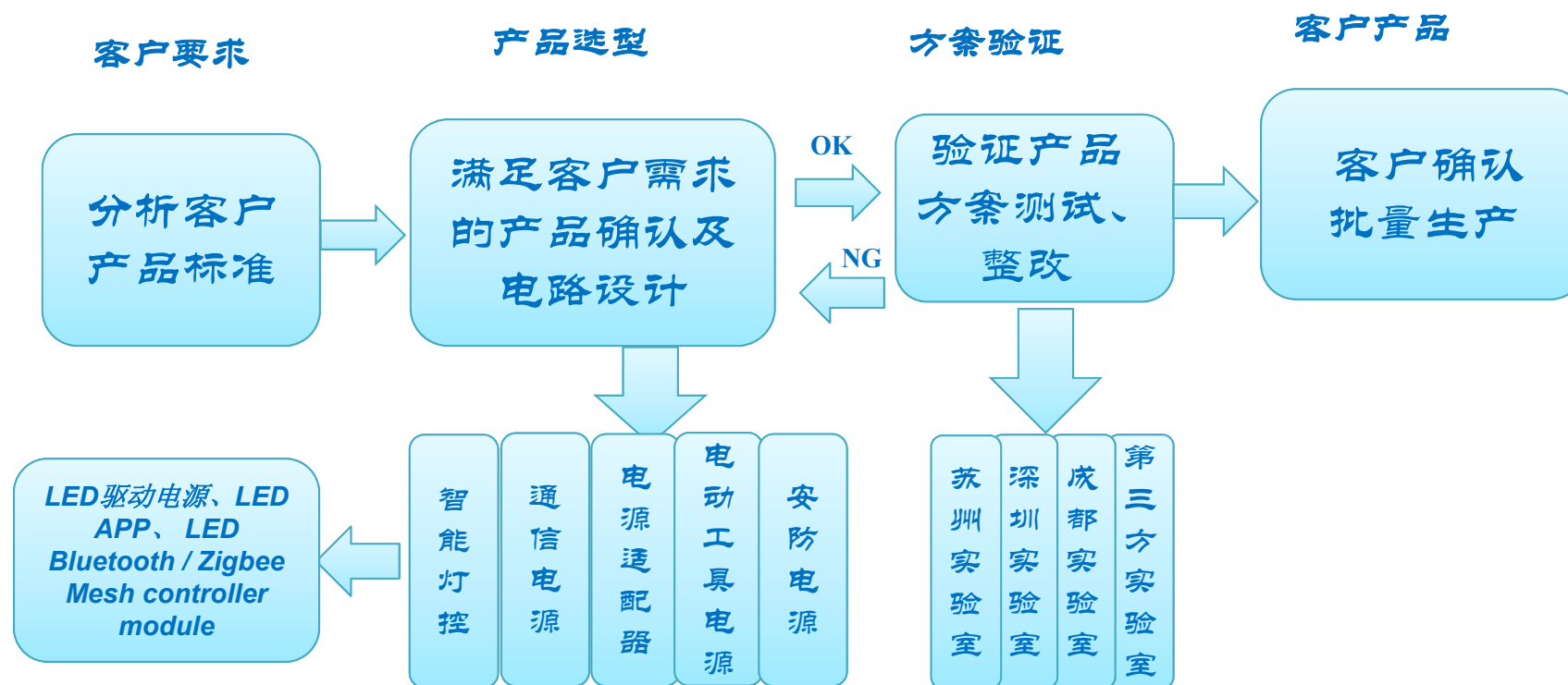


开关电源器件与完整方案

Switching Power Supply Total solutions & Devices

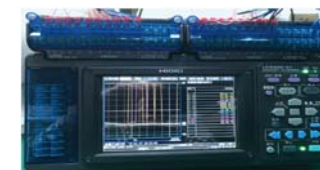
苏州吉远电子科技有限公司不仅是一个高品质产品的提供商
也是一个致力于产品完整方案和系统设计的提供商

*Ji Yuan Electronic Technology is not only a provider of high quality products,
but also commit to providing full complete solutions and system design*



产品研发人员及相关设备 *Products R&D and Equipment*

- 我司拥有**80MM**独立开关电源研发实验室.
- **80%**以上人员为本科且具有独立开发开关电源能力.
- **-40°C~150°C**高低温试验箱
- **IT7626 3KW 0~300V**可调AC Source or **5KW Ac source**
- **Chroma DC Load 63204E 600V-280A**
- **LCR Meter: HIOKI IM3536 8MhZ Frequency**
- **HIOKI 3335 or Chroma Power Meter**
- **Oscilloscope: Tektronix DPO3034**
- **Temperature Test Instrument : HIOKI LR8400-21**



开关电源器件与完整方案

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小功率、高性价比AC/DC 开关电源器件系列

- ◆ 圣诞灯驱动器方案及 **BOM List**
- ◆ 充电器&剃毛器方案及 **BOM List**
- ◆ 集成BJT功率管充电器方案及 **BOM List**

2

高可靠、高效、高性价比充电器与小家电AC/DC开关电源器件系列

- **PSR**功率开关器件方案及 **BOM List**
- **SSR**功率开关器件方案及 **BOM List**
- **SSR or PSR** 简单易用同步整流器件

开关电源器件与完整方案

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小于**75W**适配器、安防、电动工具 **AC to DC** 开关电源器件系列

- 适配器、安防、电动工具方案及**BOM List**
- 低压、大电流、高效、高性价比同步整流方案及**BOM List**, 能完美的满足**CQC or Tier 2**要求
- 简单、易用集成功率管同步整流器件及兼容**CCM**、**DCM**、**QRM**的控制器件

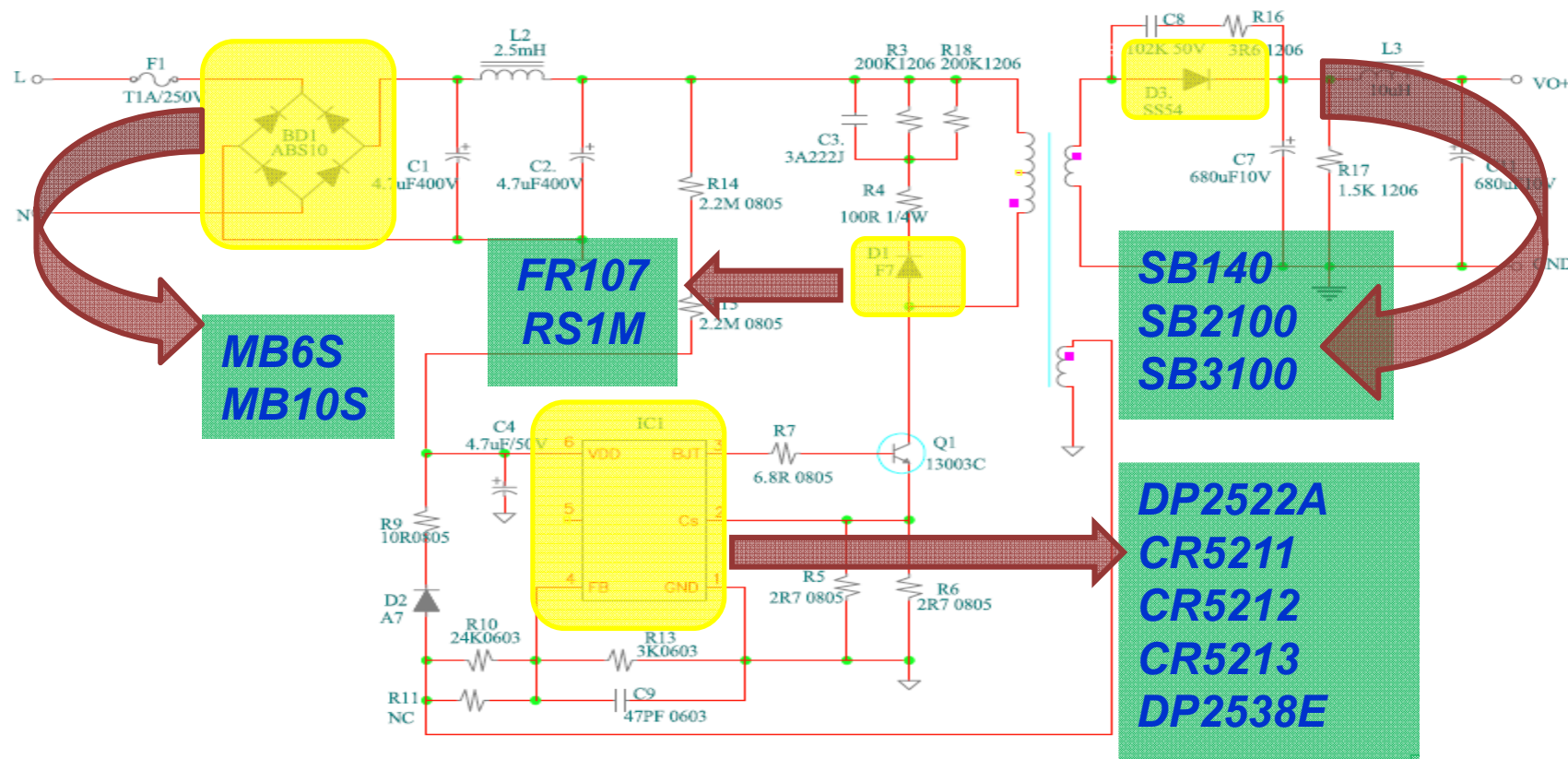
4

75W 至1000W大功率**AC to DC** 开关电源器件系列

- ◆ 工业类电源与大功率充电器方案及**BOM List**
- ◆ 低压、大电流、高效、高性价比同步整流方案及**BOM List**

AC/DC系列—圣诞灯驱动器方案及器件

超低成本 PSR+BJT ≤ 6.4W

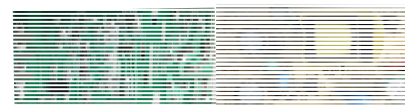


5W solution BOM Cost Less than 3.3RMB

AC/DC系列—圣诞灯驱动器方案BOM List

Power Stage	Controller or Combo IC	Rectifier Bridge	Diodes
<5W	DP2522A SOT-23-6 CR5211 SOT-23-6	MB6S MB10S	1N4007
			FR107
			SB140 thru SB1200
			SB240 thru SB2200
			SB340 thruSB3100
6.4W		MB6S MB10S	1N4007
	DP2522A SOT-23-6		FR107
	CR5211 SOT-23-6		SB140 thru SB1200
	CR5212 SOP-8		SB240 thru SB2200
	CR5213 SOP-8		SB340 thruSB3100
			SB540 thru SB5100
8.4W	DP2538E CR6338P CR6248	MB6S MB10S	1N4007
			FR107
			SB240 thru SB2200
			SB340 thruSB3100
			SB540 thru SB5100

PCB size:50*32*16mm



超低成本PSR+内置BJT $\leq 5W$ (专注5V系列1A)



Total BOM Cost:3RMB

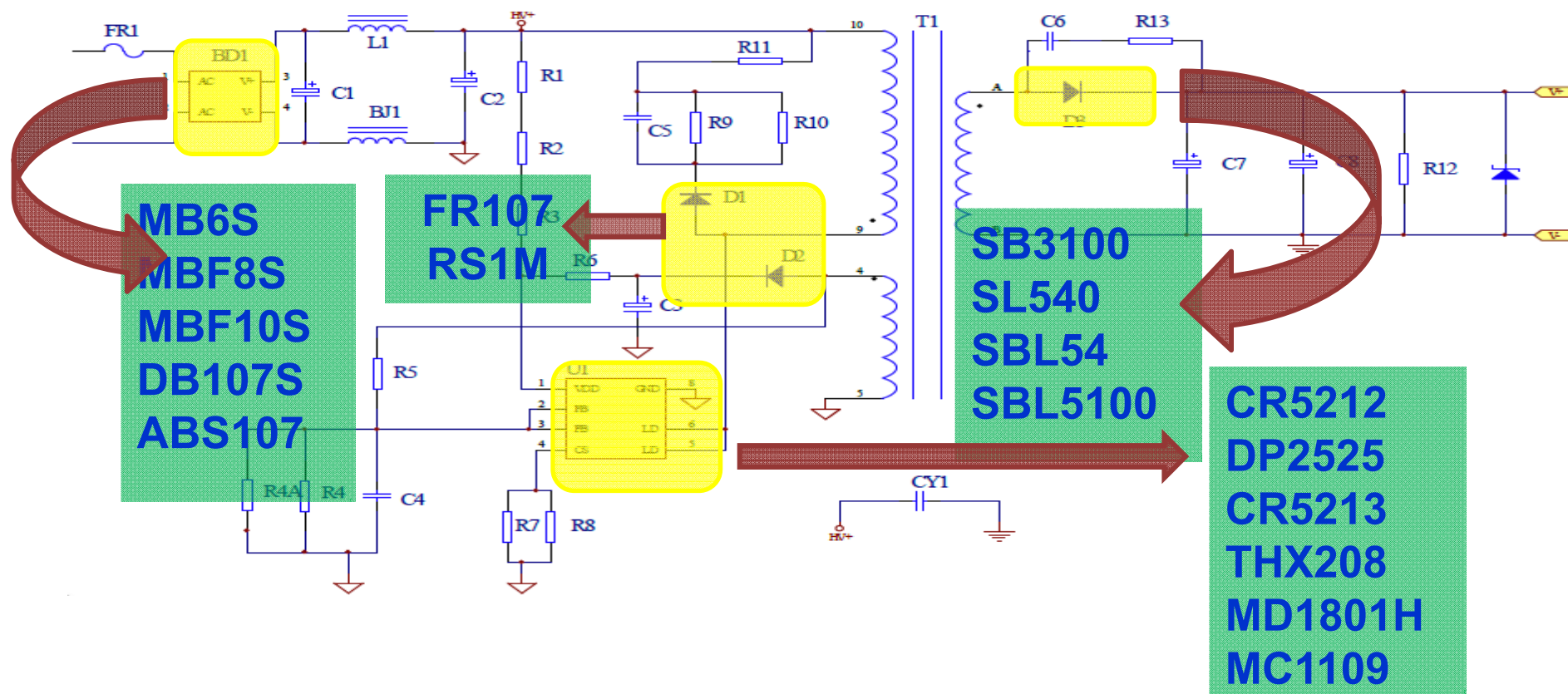
AC/DC系列—充电器&剃毛器方案 *BOM List*

Power Stage	Controller or Combo IC	Rectifier Bridge	Diodes
<5W	MD1701H CR5212A THX208H	MBF10S	1N4007
			RF107
			SB140 thru SB1200
			SB340 thru SB3100
			SB240 thru SB2200

Total BOM Cost less than 3.00yuan RMB

AC/DC系列—充电器方案及器件

超低成本PSR+内置BJT $\leq 12W$



AC/DC系列—充电器方案 **BOM List**

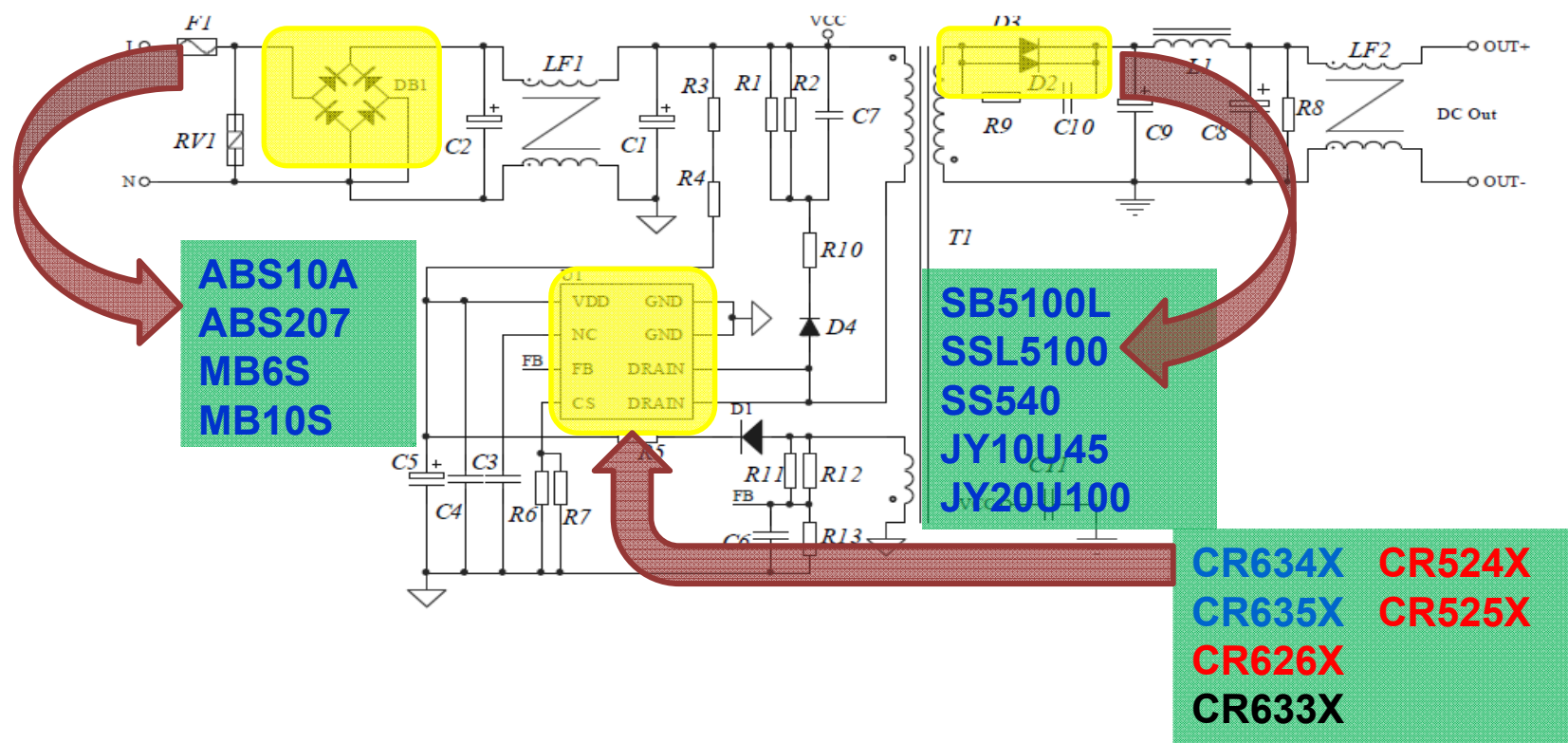
Power Stage	Controller or Combo IC	Rectifier Bridge	Diodes
5W 6W 8W 12W	CR5212	MB6S	FR107
	DP2525	MBF8S	RS1M
	CR5213	MBF10S	SB140 thru SB1200
	THX208	DB107S	SB240 thru SB2200
	MD1801H	ABS107	SB340 thru SB3100
			SB540 thru SB5200

BOM Cost Less Than 4.6 Yuan RMB



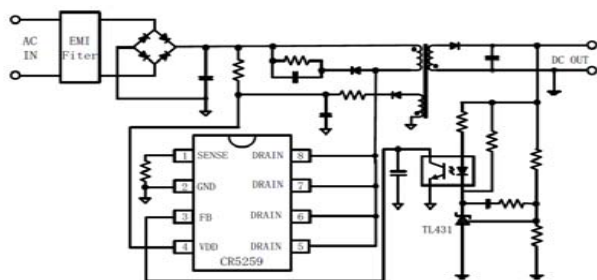
AC/DC系列—小功率充电器&小家电器件与方案

PSR or SSR + 内置MOS Combo ≤18W

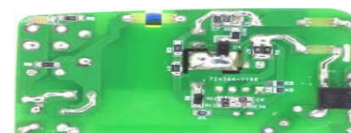


AC/DC系列—充电器&小家电方案BOM List

Power Stage	Controller or Combo IC	Rectifier Bridge	Diodes	CC&CR
5W 8W 12W 18W 24W	CR5213 SOP-8 PSR	MB6S	FR107	LT817X MB431 MB3305 MB3310
	CR6348 DIP-8 PSR	MBF8S	RS1M	
	CR6349 DIP-8 PSR	MBF10S	SB140 thru SB1200	
	CR5241 DIP-8 SSR	DB107S	SB240 thru SB2200	
	CR5244 DIP-8 SSR	ABS107	SB340 thru SB3100	
	CR5249 DIP-8 SSR	ABS207	SB540 thru SB5200	
	CR5254 SOP-8 SSR		SB10100 TO-277	
	CR5256 SOP-8 SSR		SB10200 TO-277	



The CR5259 DIP-8
Output Power is
24W in the
universal voltage



PCB size:65*40*24mm

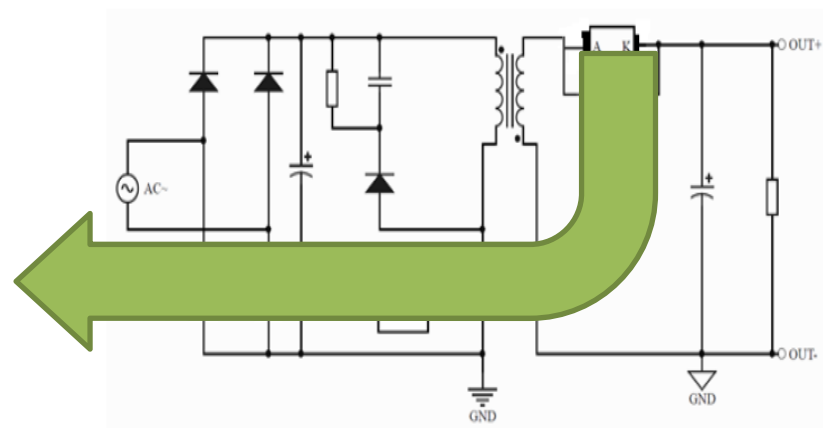
AC to DC 系列—简单、易用集成功率管同步整流器件



产品特性:

- 超低压降VF，超低温升
- 可工作在CCM / DCM / QR反激模式
- 内部集成10/15/20/25mΩ 45V~100V NMOS管
- 支持正向或反向整流
- 无需任何外部线路
- 仅有两个引脚A-K，可直接替代肖特基二极管
- 对EMI/C有适当的改善
- TO-220的产品即将发布

典型应用:

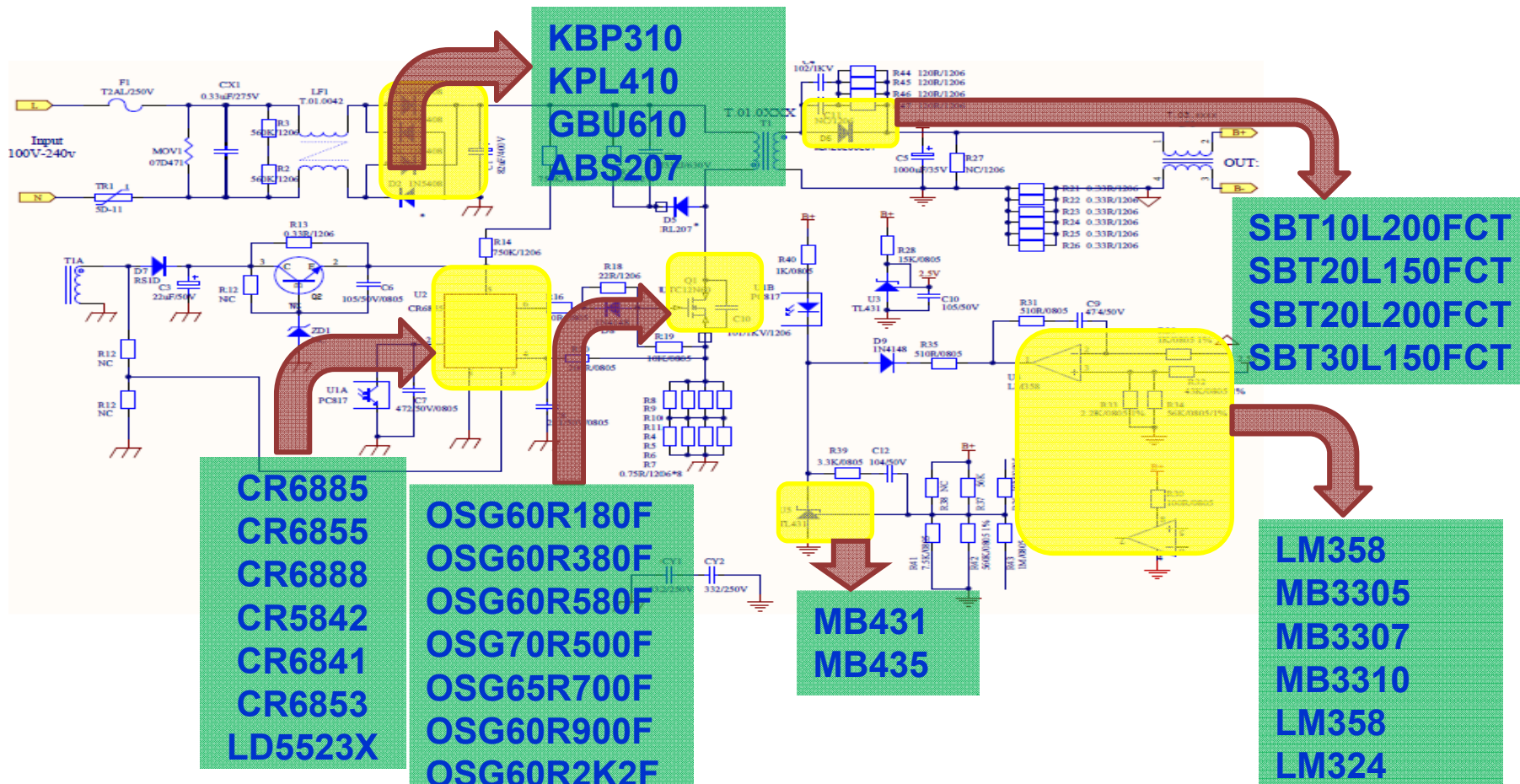


主要产品:

产品型号	产品类别	封装形式	输出 电压与电流
DK5V45R25	同步整流	SM-7	5V2A
DK5V45R20	同步整流	SM-7	5V2.4A
DK5V45R15	同步整流	SM-7	5V3A
DK5V45R10	同步整流	SM-7	5V4A
DK5V100R25D	同步整流	SM-7	12V2A
DK5V100R25C	同步整流	SM-7	12V2A
DK5V100R20C	同步整流	SM-7	12V2.4A

AC/DC系列—适配器&安防&电动工具器件与方案

SSR+外置MOSFET 20W≤Power stage ≤75W



AC/DC系列—适配器&安防&电动工具BOM List



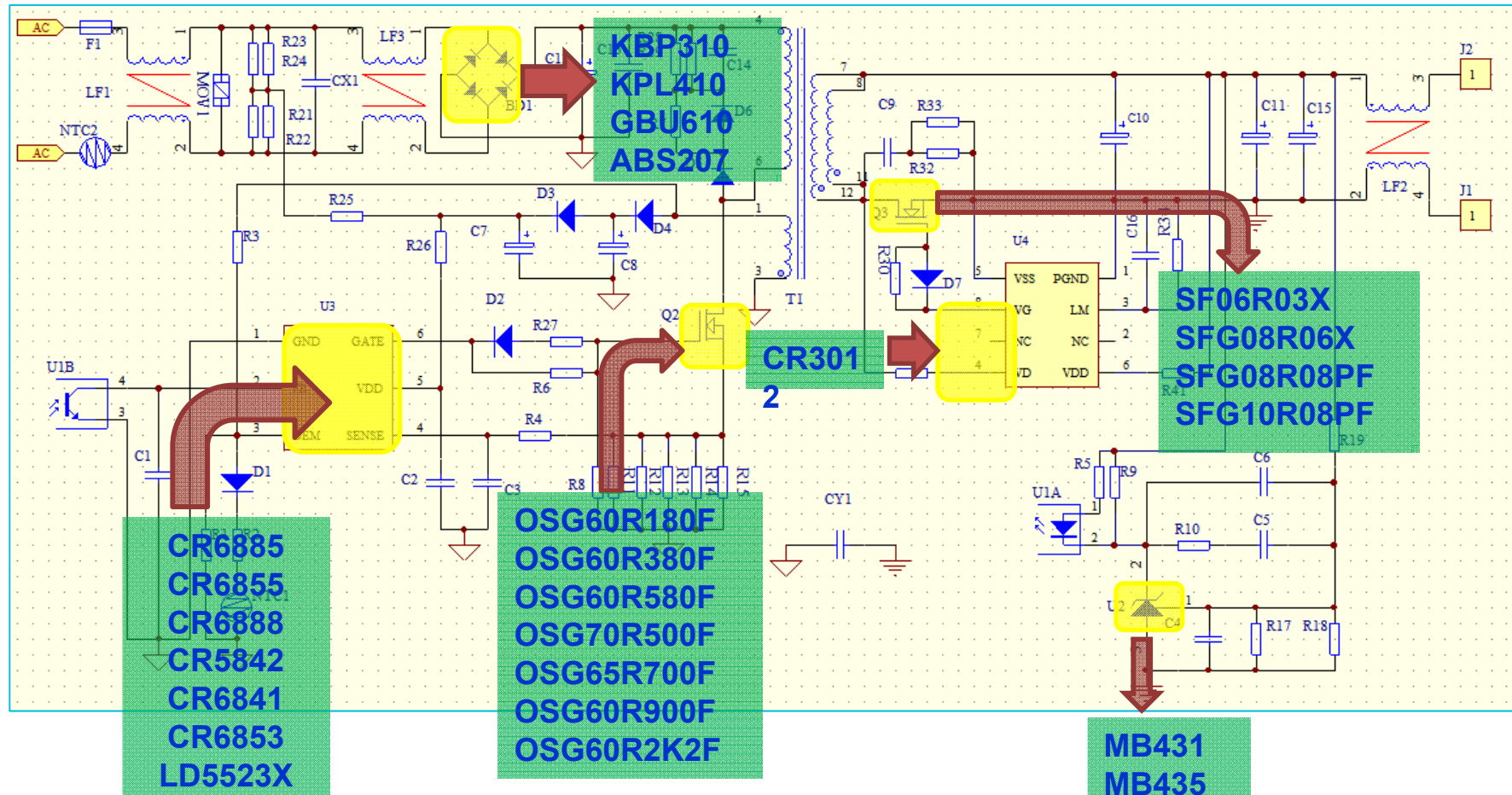
Power Stage	Controller	Power MOSFET	Rectifier Bridge	Power Diodes
20W to 75W	CR6885	OSG60R180F	KBP310	SB540 thru SB5200
	CR6855	OSG60R380F	KBP410	SBL20X00
	CR5842	OSG60R580F	GBU610	SBL10X00
	CR6888	OSG70R500F	GBJ1010	SBL30X00
	CR6841/2	OSG60R900F	KPL410	
	CR6853	OSG60R2K2F	ABS207	
	LD7750	OSG65R700F		
	LD5523X			

Power Stage	CC&CR	Synchronized Rectifier Controller	Secondary side Power MOSFET
20W to 75W	LT817X	CR3012	SF06R03X
	MB431		SFG08R08PF
	MB3305		SFG10R08PF
	MB3310		SFG08R06PF
	MB435		
	LM358		
	LM324		



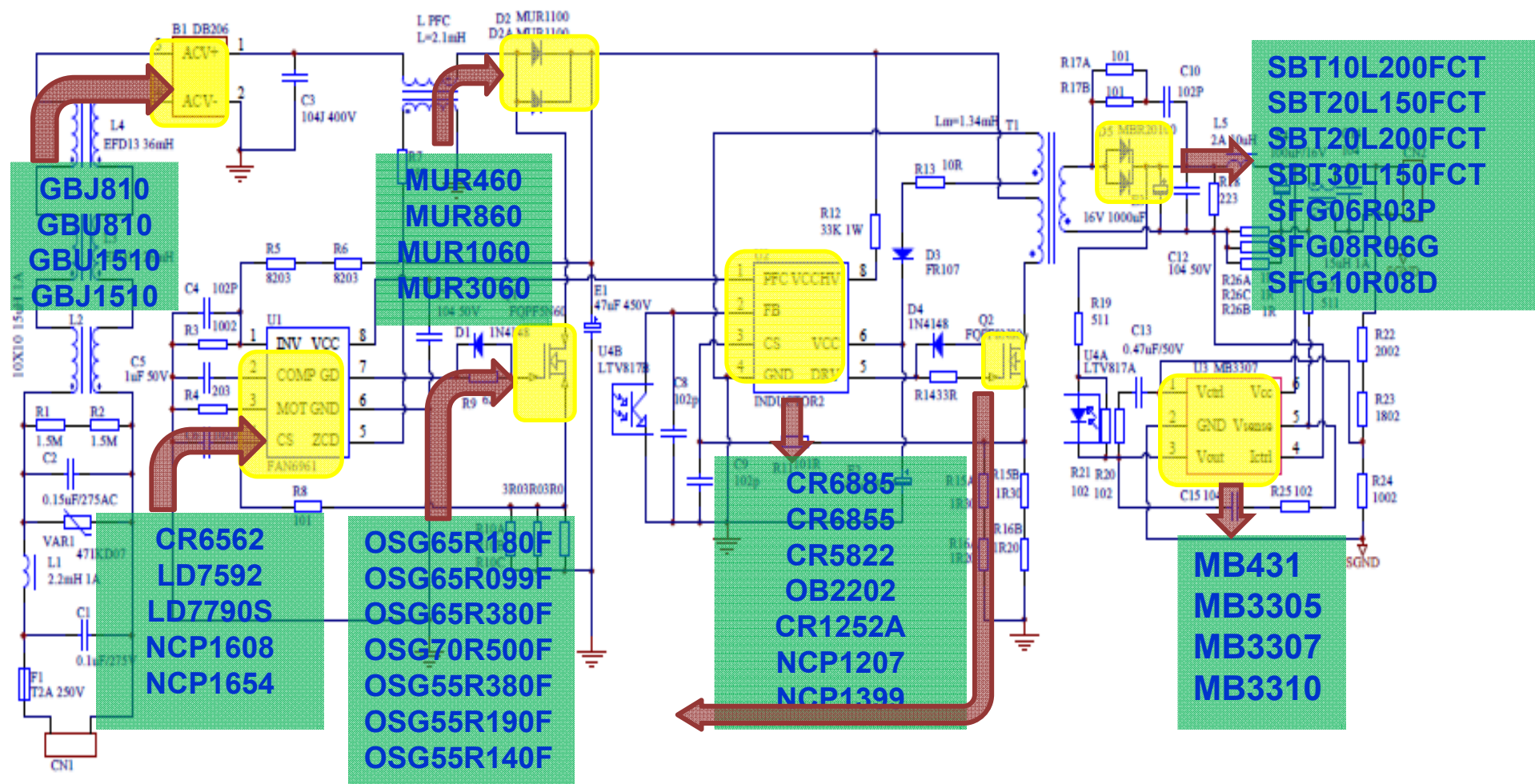
AC to DC 系列—完美满足CQC or Tier 2方案及器件

SSR+外置MOSFET 20W≤Power stage ≤75W



AC/DC系列—工业类电源与大功率充电器方案与器件

SSR+PFC+外置MOSFET 75W ≤ Power stage ≤ 1000W



AC/DC系列—工业类电源与大功率充电器 *BOM List*



Power Stage	PWM Controller	Power MOSFET	Rectifier Bridge	Power Diodes
75W to 1000W	CR5822	OSG60R180F	KBP310	SB540 thru SB5200
	CR6855	OSG60R380F	KBP410	SBL20X00
	CR5842	OSG60R099F	GBU610	SBL10X00
	OB2203	OSG70R500F	GBU1008A	SBL30X00
	NCP1399	OSG60R900F	GBU1508A	MUR460
	CR1252A	OSG55R140P	GBU2508	MUR860
	LD7790	OSG55R070F		MUR1060
	LD5523X	OSG60R069H		

Power Stage	PFC Controller	CC&CR	Synchronized Rectifier Controller	Secondary side Power MOSFET
75W to 1000W	LD7790	LT817X	CR3012	SFG06R03G
	CR6562	MB431		SFG08R06D
	NCP1608	MB3305		SFG10R10F
	NCP1654	MB3310		
	NCP1650	MB435		
		LM358		
		LM324		

*Demo:
5V60A
12V20A
Related files can
been offer*



More information for products will be update later



Thank You For Your Attention

Your Preferred Partner to Support and Grow Your Business