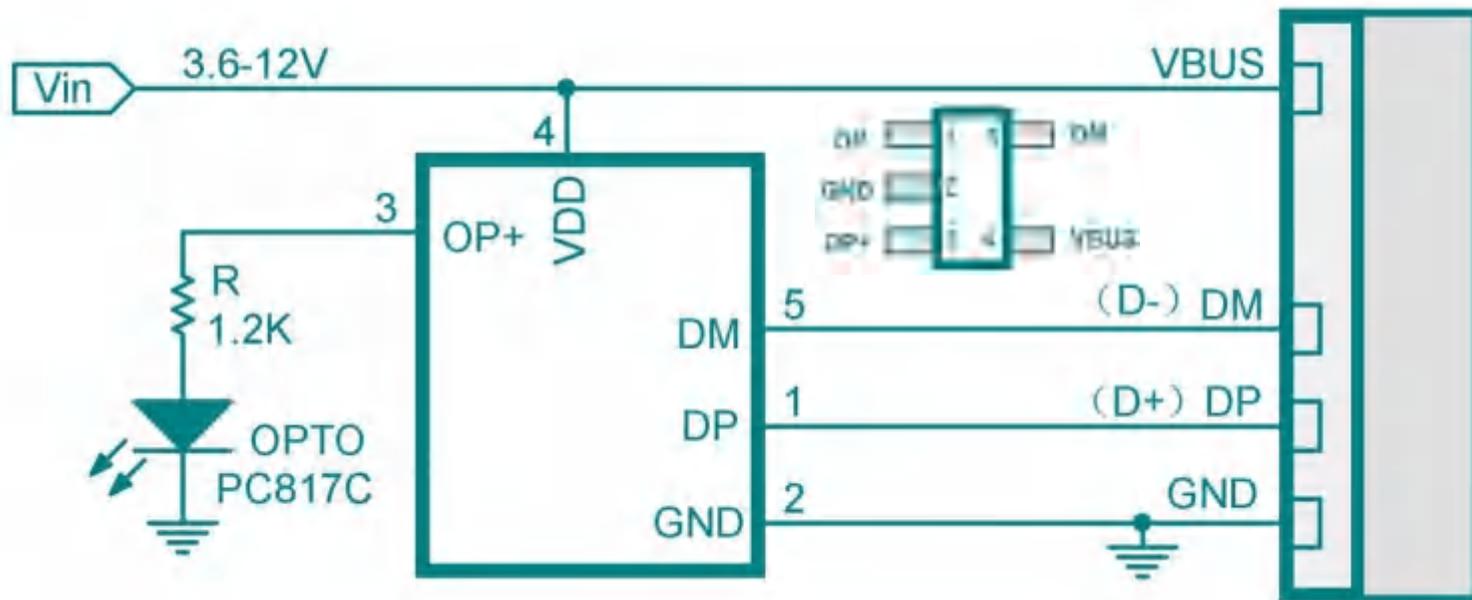
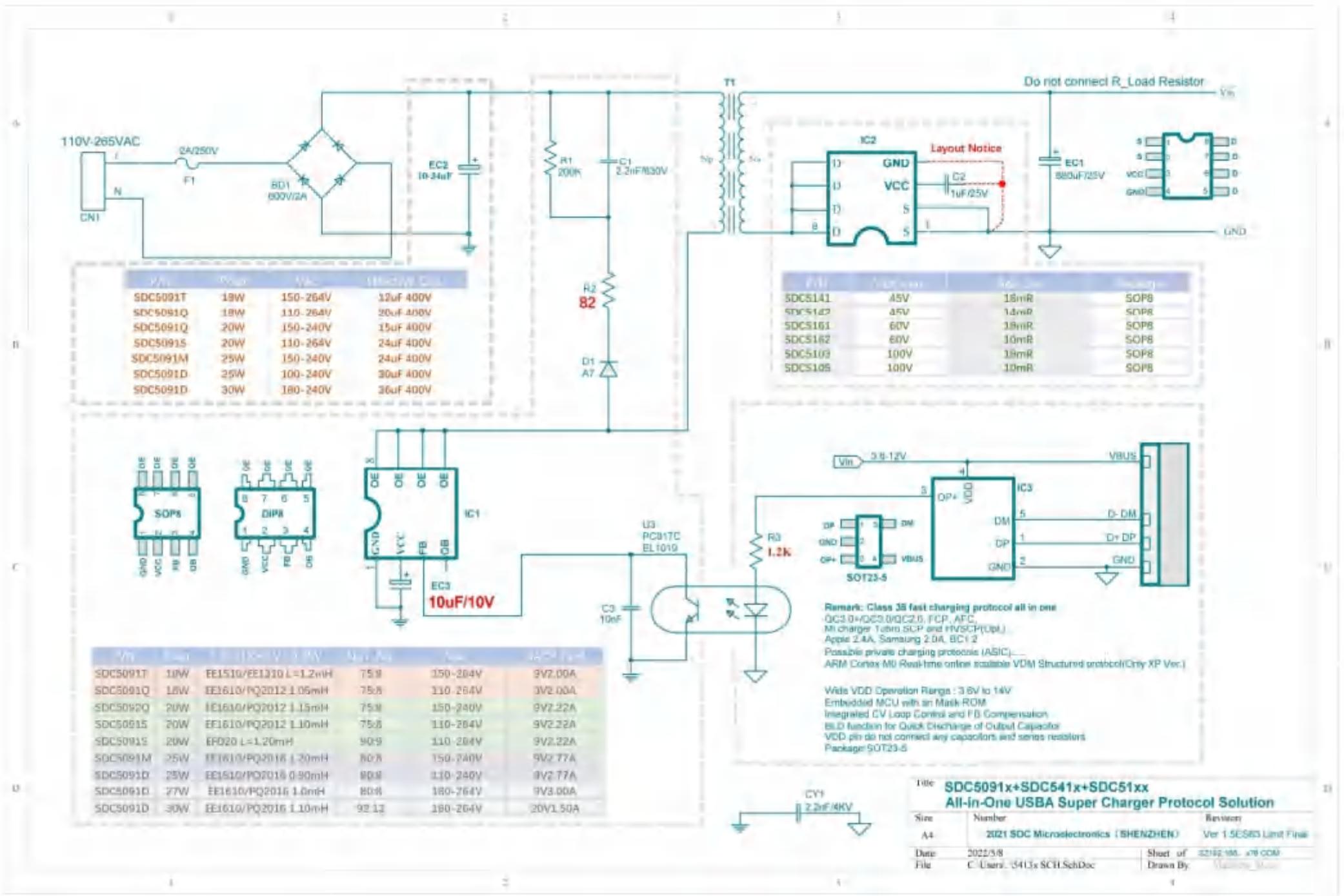


	Package	USBA Protocol
SDC5413C	SOT23-5	QC3.0+ QC3.0 AFC FCP HVSCP ... 5V 9V
SDC5413D	SOT23-5	QC3.0+ QC3.0 AFC FCP HVSCP Mi_Charger_Tubro... 5V 9V 12V



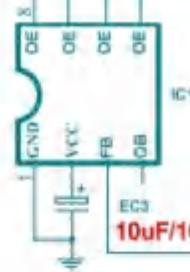
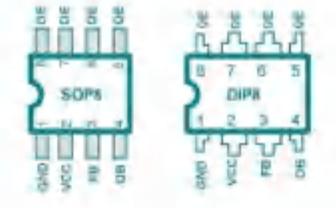
SDC5413x 支持最新的高功率和最新协议规范，留意功率余量或恒功率主控方案，避免过载保护或烧机

SDC5413x 集成输出电容泄放电路。部分协议需要订制；使用转接小板或电解电容一致性差，建议VBUS添加100nF/25V电容



V _{in}	V _{out}	V _{AC}	Efficiency (%)
SDC5091T	19W	150-264V	32uF 400V
SDC5091Q	18W	110-264V	20uF 400V
SDC5091Q	20W	150-240V	15uF 400V
SDC5091S	20W	110-264V	24uF 400V
SDC5091M	25W	150-240V	24uF 400V
SDC5091D	25W	100-240V	30uF 400V
SDC5091D	30W	180-240V	36uF 400V

V _{in}	V _{out}	R _{DS(on)}	Package
SDCS141	45V	18mR	SOP8
SDCS142	45V	1.8mR	SOP8
SDCS161	60V	18mR	SOP8
SDCS162	60V	10mR	SOP8
SDCS103	100V	18mR	SOP8
SDCS105	100V	10mR	SOP8



V _{in}	V _{out}	IC1	IC2	V _{in}	V _{out}	IC3
SDC5091T	10W	EE1510/EE1310 L=1.2mH	75%	150-264V	9V2.00A	
SDC5091Q	18W	EE1610/PQ2012 1.05mH	75%	110-264V	3V2.00A	
SDC5092Q	20W	EE1610/PQ2012 1.15mH	75%	150-240V	9V2.22A	
SDC5091S	20W	EE1610/PQ2012 1.10mH	75%	110-264V	9V2.22A	
SDC5091S	20W	EFD20 L=1.20mH	90%	110-264V	9V2.22A	
SDC5091M	25W	EE1610/PQ2016 1.20mH	80%	150-240V	9V2.77A	
SDC5091D	25W	EE1510/PQ2016 0.90mH	80%	110-240V	9V2.77A	
SDC5091D	27W	EE1610/PQ2016 1.0mH	80%	180-264V	9V3.00A	
SDC5091D	30W	EE1610/PQ2016 1.10mH	92%	180-264V	20V1.50A	

Remark: Class 3B fast charging protocol all in one
 QC3.0+QC2.0/QC2.0, FCP, AFC,
 Mi charger Turbo SCP and HVSCP(OEM),
 Apple 2.4A, Samsung 2.0A, BC1.2
 Possible private charging protocols (ASIC).....
 ARM Cortex M0 Real-time online scalable VDM Structured protocol(Only XP Ver.)

Wide VDD Operation Range: 3.6V to 14V
 Embedded MCU with an Mask ROM
 Integrated CV Loop Control and FB Compensation
 BLD function for Quick Discharge of Output Capacitor
 VDD pin do not connect any capacitors and series resistors
 Package: SOT23-5

Title: SDC5091x+SDC541x+SDC51xx All-in-One USB Super Charger Protocol Solution			
Size	Number	Revision	
A4	2021 SDC Microelectronics (SHENZHEN)	Ver 1.5CS03 Limit Final	
Date	2022/3/8	Sheet of	2022-05-178 COM
File	C:\Users\3413x\SCH\SchDoc	Drawn By	Wangjun_xu