Title	SC8701-EVM-RE1			Author: OldGerman
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Date: 2023/6/25	Time: 14:38:29	Sheet 1 of 1		
File: D:\ODG-PROJECT\DS-PPK\AD_Project\SC8701_EVM_RE1\SC8701_EVM_RE1_0624.SchDoc				

CAUTION HOT SURFACE

PCB LOGO OldGerman Symbol

本原理图大多数注释的出处：
詹工谈芯：SC8701同步升降压控制芯片 https://blog.csdn.net/linkedin_38804946/article/details/128421762
8bit_in_1byte： SC8701 buck-boost 可调DC-DC验证 https://oshwhub.com/8bit_in_1byte/sc8701-ke-diaodc-dc

Item #	Designator	Description	Comment	Quantity	Manufacturer 1	Manufacturer Part Number 1	Footprint	LibRef	Note
1	C1, C10, C11, C24	Capacitor	100uF/50V	4			CAP OS-CON D=10.0 L=10.0 F10	CAP_Polar_Aluminum	
2	8, C9, C12, C13, C14,	Capacitor	10uF/50V	16			C1210	CAP	
3	C16, C17, C18, C19	Capacitor	100nF/50V	4			C0603	CAP	
4	C25, C26, C27, C28	Capacitor	NPO/NC	4			C0805	CAP	
5	C29, C35	Capacitor	47pF/6.3V	2			C0603	CAP	
6	C30, C33	Capacitor	100nF/16V	2			C0603	CAP	
7	C31, C34, C41	Capacitor	1uF/50V	3			C0603	CAP	
8	C32	Capacitor	1uF/25V	1			C0805	CAP	
9	C36, C37	Capacitor	NC	2			C0603	CAP	
10	C38	Capacitor	15nF/6.3V	1			C0603	CAP	
11	C39, C40	Capacitor	10nF/6.3V	2			C0603	CAP	
12	D1, D2	二极管	SS54F	2			SMAF	Diode	
13	D3, D4, D5, D6, D7, D8	二极管	1N4148	6			SOD-323	Diode	
14	H1, H2, H3, H4		HOLE	4			M3.2 D=8	HOLE	
15	J1, J2, J3, J4	Banana Jack	U6047	4			JACK_BANANA_U6047	JACK_BANANA	
16	JP1		CONN_X2_DOT	1			2.54mm_Male_x2	CONN_X2_DOT	
17	L1	135 功率电感 额定电流15A	3.3uH	1			INDUCTOR 1350 12.6X13.5X5.0mm	Inductor_power	
18	P1, P2, P3, P6, P7		CONN_X3	5			2.54mm_Male_x3	CONN_X3	
19	P4, P5		CONN_X2	2			2.54mm_Male_x2	CONN_X2	
20	Q1, Q2, Q3, Q4		N-MOS_GDS	4			SO8FL ROUND	N-MOS_GDS	
21	Q5	N-MOS	N-MOS	1			INFINEON SOT-23-3	N-MOS_123	
22	R1, R2	IEC Standard	10mR	2			R1206	RES	
23	R3, R4, R5, R6	IEC Standard	NC	4			R0805	RES	
24	R7, R8, R19, R20	IEC Standard	1K	4			R0603	RES	
25	11, R12, R13, R14, R1!	IEC Standard	0R	9			R0603	RES	
26	17, R23, R32, R33, R3	IEC Standard	100K	5			R0603	RES	
27	R18	IEC Standard	150K	1			R0603	RES	
28	R22, R24	IEC Standard	NC	2			R0603	RES	
29	R25	IEC Standard	32.4K	1			R0603	RES	
30	R26	IEC Standard	15K	1			R0603	RES	
31	R27	IEC Standard	68K	1			R0603	RES	
32	R28	IEC Standard	200K	1			R0603	RES	
33	R29	IEC Standard	12.1K	1			R0603	RES	
34	R30	IEC Standard	40.2K	1			R0603	RES	
35	R31	IEC Standard	10K	1			R0603	RES	
36	R35	IEC Standard	24K	1			R0603	RES	
37	TP4, TP5, TP6, TP7, TP8, TP9, TP10		CONN_X1_DOT	10			2.54mm_Male_x1	CONN_X1_DOT	
38	U1	高效率, 同步, 4 管升降压控制器	SC8701 (A)	1			TQFN-32 4X4MM 0.4 VIA	SC8701 (A)	