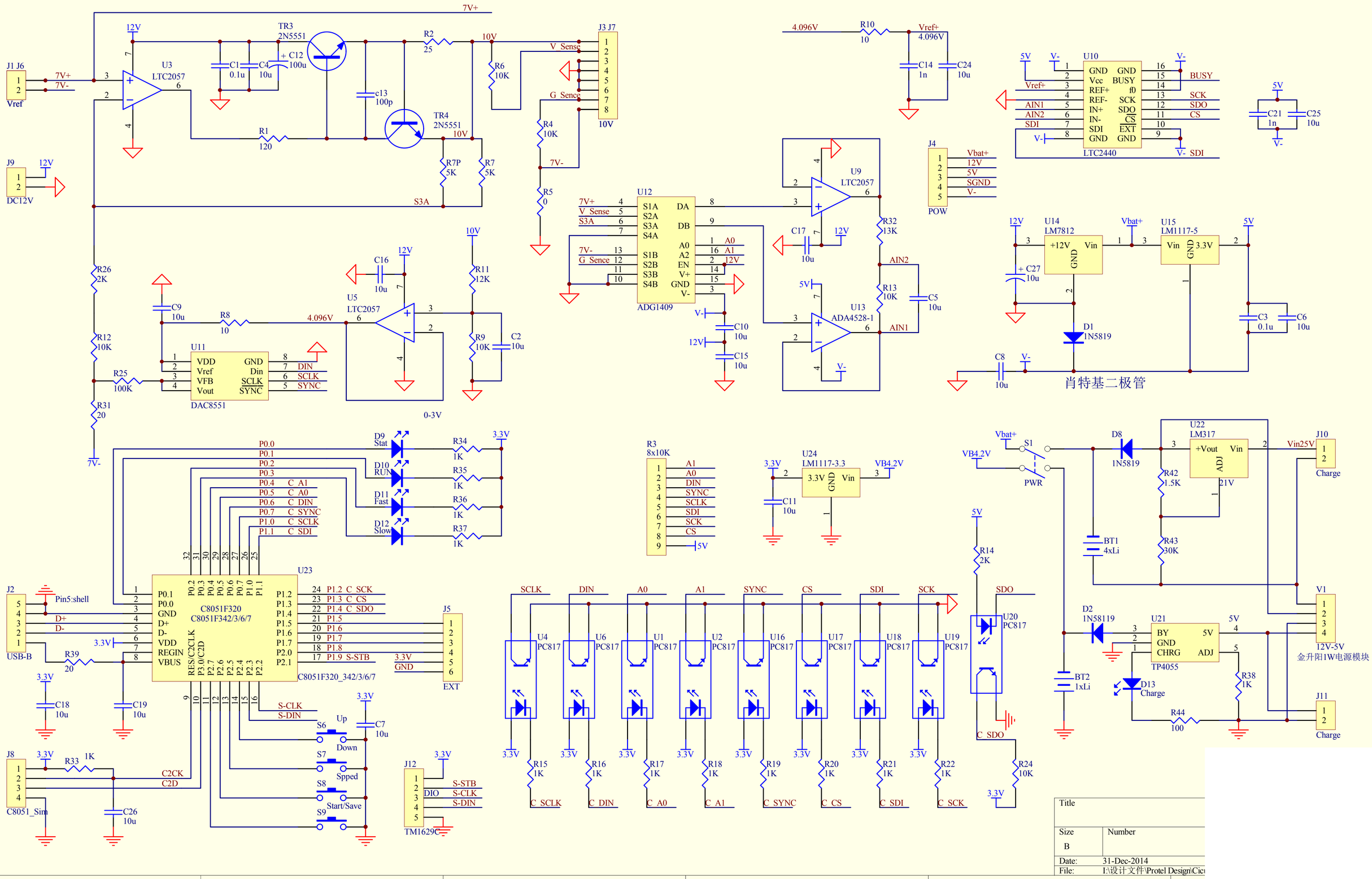
7V+
12V
TR3
2N5551
R2
25
10V
J3 J7
V_Sense
G_Sence
10V
J1 J6
7V+
7V-
Vref
U3
LTC2057
C1
0.1u
C4
10u
C12
100u
c13
100p
TR4
2N5551
R1
120
R6
10K
R4
10K
7V-
R5
0
R7P
5K
R7
5K
S3A
J9
DC12V
R26
2K
R12
10K
R25
100K
R31
20
C9
10u
R8
10
4.096V
U11
VDD
Vref
VFB
Vout
GND
Din
SCLK
SYNC
DIN
SCLK
SYNC
DAC8551
U5
LTC2057
C16
10u
R11
12K
R9
10K
C2
10u
0-3V
U12
S1A
S2A
S3A
S4A
S1B
S2B
S3B
S4B
DA
DB
A0
A2
EN
V+
GND
V-
ADG1409
C10
10u
C15
10u
U9
LTC2057
C17
10u
R32
13K
R13
10K
C5
10u
AIN2
AIN1
U13
ADA4528-1
4.096V
R10
10
C14
1n
C24
10u
Vref+
4.096V
J4
Vbat+
12V
5V
SGND
V-
POW
U10
GND
Vcc
REF+
REF-
IN+
IN-
SDI
GND
BUSY
f0
SCK
SDO
CS
EXT
GND
LTC2440
BUSY
SCK
SDO
CS
SDI
C21
1n
C25
10u
U14
LM7812
+12V
Vin
GND
U15
LM1117-5
Vin
GND
3.3V
C27
10u
D1
1N5819
C3
0.1u
C6
10u
C8
10u
肖特基二极管
R3
8x10K
A1
A0
DIN
SYNC
SCLK
SDI
SCK
CS
U24
LM1117-3.3
3.3V
GND
Vin
C11
10u
VB4.2V
S1
PWR
D8
1N5819
U22
LM317
+Vout
ADJ
Vin
21V
R42
1.5K
R43
30K
J10
Vin25V
Charge
BT1
4xLi
BT2
1xLi
D2
1N58119
U21
BY
GND
CHRG
5V
ADJ
TP4055
D13
Charge
R38
1K
R44
100
V1
12V-5V
金升阳1W电源模块
J11
Charge
R14
2K
SDO
U20
PC817
C_SDO
R24
10K
P0.0
P0.1
P0.2
P0.3
P0.4 C_A1
P0.5 C_A0
P0.6 C_DIN
P0.7 C_SYNC
P1.0 C_SCLK
P1.1 C_SDI
D9
Stat
D10
RUN
D11
Fast
D12
Slow
R34
1K
R35
1K
R36
1K
R37
1K
U23
C8051F320
C8051F342/3/6/7
C8051F320_342/3/6/7
P0.1
P0.0
GND
D+
D-
VDD
REGIN
VBUS
RES/C2CLK
P3.0/C2D
P2.7
P2.6
P2.5
P2.4
P2.3
P2.2
P1.2 C_SCK
P1.3 C_CS
P1.4 C_SDO
P1.5
P1.6
P1.7
P1.8
P2.0
P2.1 P1.9 S-STB
J2
USB-B
Pin5:shell
D+
D-
R39
20
C18
10u
C19
10u
J5
EXT
3.3V
GND
S-CLK
S-DIN
S6
Up
S7
Down
S8
Spped
S9
Start/Save
C7
10u
J8
C8051_Sim
R33
1K
C2CK
C2D
C26
10u
J12
TM1629C
DIO
S-STB
S-CLK
S-DIN
SCLK
DIN
A0
A1
SYNC
CS
SDI
SCK
U4
U6
U1
U2
U16
U17
U18
U19
PC817
R15
1K
R16
1K
R17
1K
R18
1K
R19
1K
R20
1K
R21
1K
R22
1K
C_SCLK
C_DIN
C_A0
C_A1
C_SYNC
C_CS
C_SDI
C_SCK
Title
Size
B
Number
Date:
31-Dec-2014
File:
I:\设计文件\Protel Design\Cic