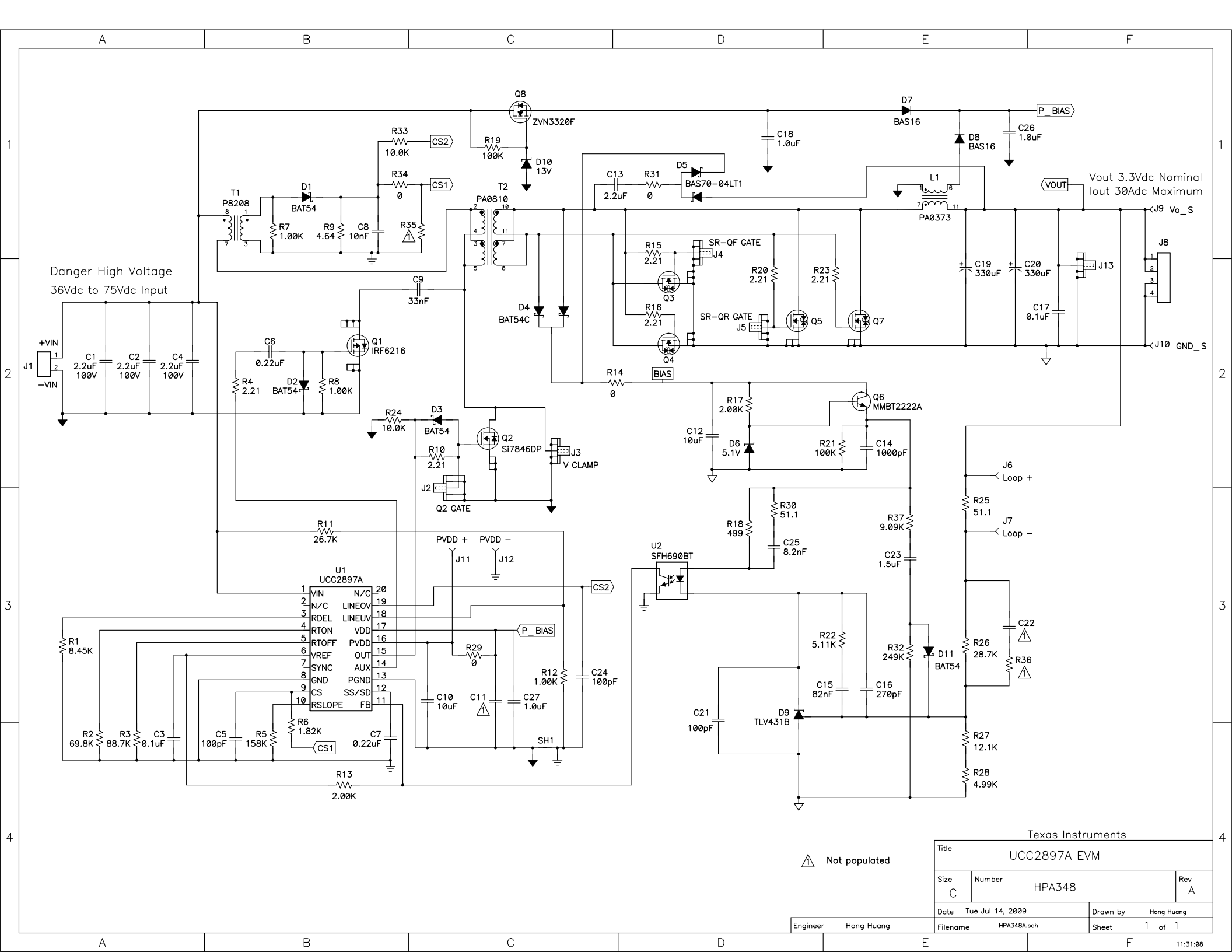
Danger High Voltage
36Vdc to 75Vdc Input
+VIN
–VIN
J1
C1 2.2uF 100V
C2 2.2uF 100V
C4 2.2uF 100V
T1 P8208
D1 BAT54
R7 1.00K
R9 4.64
C8 10nF
R35
R33 10.0K
R34 0
CS2
CS1
R19 100K
Q8 ZVN3320F
D10 13V
T2 PA0810
C9 33nF
C6 0.22uF
Q1 IRF6216
R4 2.21
D2 BAT54
R8 1.00K
D4 BAT54C
R24 10.0K
D3 BAT54
Q2 Si7846DP
J3 V CLAMP
R10 2.21
J2 Q2 GATE
R11 26.7K
PVDD + J11
PVDD – J12
U1 UCC2897A
VIN N/C LINEOV LINEUV VDD PVDD OUT AUX PGND SS/SD FB
N/C RDEL RTON RTOFF VREF SYNC GND CS RSLOPE
R1 8.45K
R2 69.8K
R3 88.7K
C3 0.1uF
C5 100pF
R5 158K
R6 1.82K
C7 0.22uF
R29 0
C10 10uF
C11
C27 1.0uF
R12 1.00K
C24 100pF
SH1
R13 2.00K
C18 1.0uF
D7 BAS16
D8 BAS16
C26 1.0uF
P_BIAS
C13 2.2uF
R31 0
D5 BAS70-04LT1
L1 PA0373
VOUT
Vout 3.3Vdc Nominal
Iout 30Adc Maximum
J9 Vo_S
J10 GND_S
J8
C19 330uF
C20 330uF
J13
C17 0.1uF
R15 2.21
R16 2.21
SR–QF GATE J4
SR–QR GATE J5
Q3
Q4
Q5
Q7
R20 2.21
R23 2.21
R14 0
BIAS
R17 2.00K
C12 10uF
D6 5.1V
Q6 MMBT2222A
R21 100K
C14 1000pF
U2 SFH690BT
R18 499
R30 51.1
C25 8.2nF
R37 9.09K
C23 1.5uF
J6 Loop +
J7 Loop –
R25 51.1
R22 5.11K
C15 82nF
C16 270pF
R32 249K
D11 BAT54
C22
R36
R26 28.7K
C21 100pF
D9 TLV431B
R27 12.1K
R28 4.99K
Not populated
Texas Instruments
Title UCC2897A EVM
Size C
Number HPA348
Rev A
Date Tue Jul 14, 2009
Drawn by Hong Huang
Engineer Hong Huang
Filename HPA348A.sch
Sheet 1 of 1
11:31:08