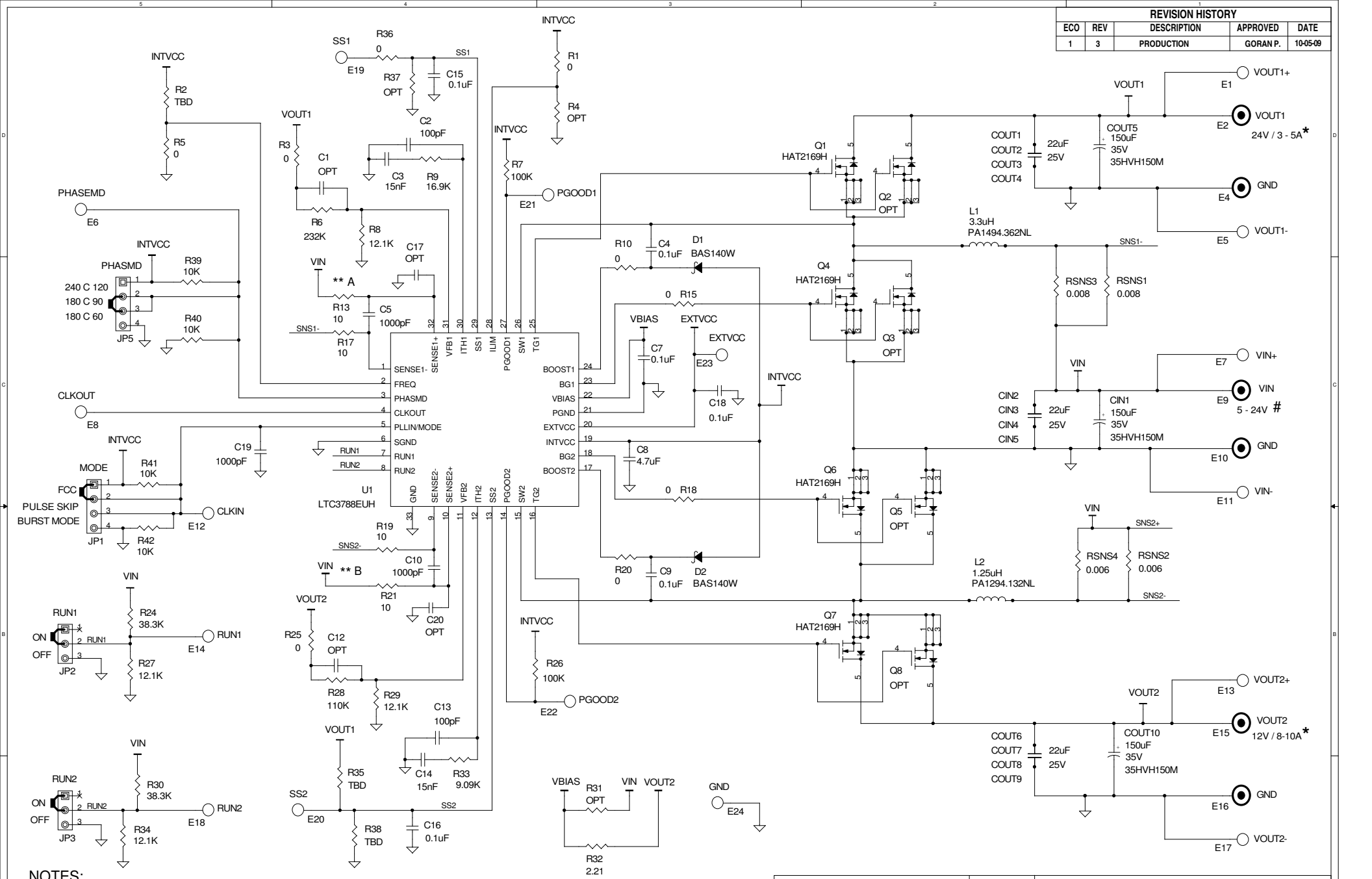
REVISION HISTORY
ECO REV DESCRIPTION APPROVED DATE
1 3 PRODUCTION GORAN P. 10-05-09
U1
LTC3788EUH
Q1 HAT2169H
Q2 OPT
Q3 OPT
Q4 HAT2169H
Q5 OPT
Q6 HAT2169H
Q7 HAT2169H
Q8 OPT
L1 3.3uH PA1494.362NL
L2 1.25uH PA1294.132NL
D1 BAS140W
D2 BAS140W
JP1
JP2
JP3
JP5
VOUT1+
VOUT1
24V / 3 - 5A*
VOUT1-
GND
VIN+
VIN
5 - 24V #
VIN-
VOUT2+
VOUT2
12V / 8-10A*
VOUT2-
PGOOD1
PGOOD2
CLKIN
CLKOUT
PHASEMD
RSNS1 0.008
RSNS3 0.008
RSNS2 0.006
RSNS4 0.006
NOTES:
* - For VIN < VOUT only, VOUT follows VIN when VIN >/= VOUT
# - SURGE VOLTAGE UP TO 36V
* * A - connect to RSNS1 Kelvin Sense for SWS1+/-, SWS2+/-
* * B - connect to RSNS2
CUSTOMER NOTICE
LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.
THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.
CONTRACT NO.
APPROVALS
PCB DES. ANTONINA K.
ENG. GORAN P.
LINEAR TECHNOLOGY
1630 McCarthy Blvd.
Milpitas, CA 95035
Phone: (408)432-1900
Fax: (408)434-0507
LTC Confidential-For Customer Use Only
TITLE: SCHEMATIC
HIGH CURRENT 2-OUTPUT SYNCHRONOUS STEP-UP SUPPLY
SIZE A
IC NO. LTC3788EUH
DEMO CIRCUIT 1409A
REV 3
DATE: Friday, November 20, 2009
SHEET 1 OF 1