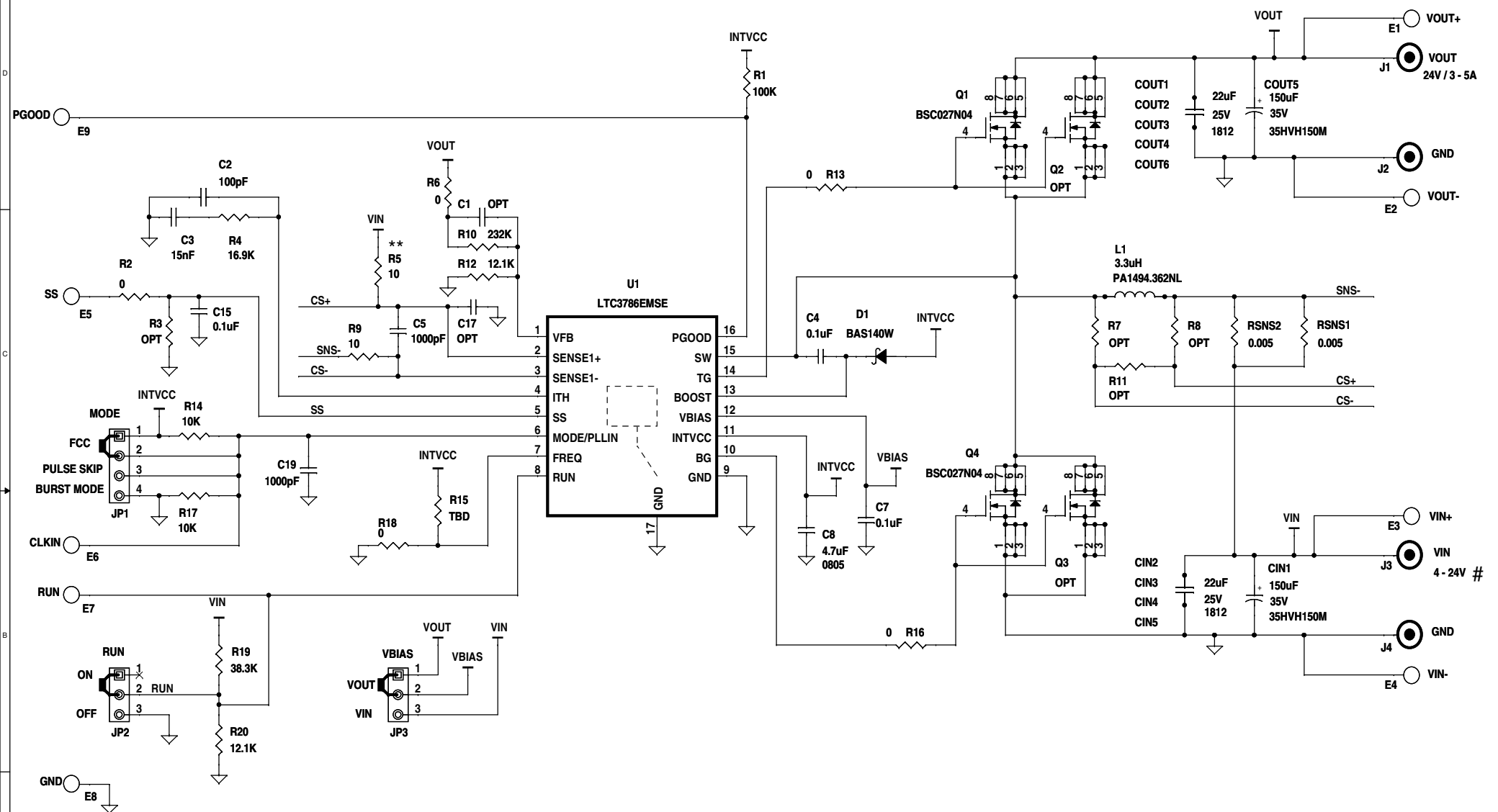


| REVISION HISTORY |     |             |          |          |
|------------------|-----|-------------|----------|----------|
| ECO              | REV | DESCRIPTION | APPROVED | DATE     |
| —                | 2   | PRODUCTION  | GORAN P. | 08-12-10 |



**NOTE: UNLESS OTHERWISE SPECIFIED**

- \* - FOR VIN < VOUT ONLY, VOUT FOLLOWS VIN WHEN VIN ≥ VOUT
- # - SURGE VOLTAGE UP TO 36V
- \*\* A - CONNECT TO RSNS1 KELVIN SENSE FOR SNS-/-

1. ALL RESISTORS ARE IN OHMS, 0603.
2. ALL CAPACITORS ARE IN MICROFARADS, 0603.
3. INSTALL SHUNTS AS SHOWN.

| CUSTOMER NOTICE  |  | APPROVALS                        |          | LINEAR TECHNOLOGY  |   |
|--|--|----------------------------------|----------|--|---|
| 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. |  | PCB DES.                         | A.K      |  |   |
|  |  | APP ENG.                         | GORAN P. |  |   |
| THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.  |  | SCALE = NONE                     |          | 1630 McCarthy Blvd.<br>Milpitas, CA 95035<br>Phone: (408)432-1900 www.linear.com<br>Fax: (408)434-0507<br>LTC Confidential-For Customer Use Only |   |
|  |  | TITLE: SCHEMATIC                 |          | HIGH CURRENT SINGLE OUTPUT   |   |
|  |  |                                  |          | SYNCHRONOUS STEP-UP SUPPLY   |   |
|  |  | SIZE                             | IC NO.   | LTC3786EMSE  |   |
|  |  | N/A                              |          | DEMO CIRCUIT 1641A   |   |
|  |  | DATE: Wednesday, August 25, 2010 |          | REV.   | 2 |
|  |  |                                  |          | SHEET 1 OF 1   |   |