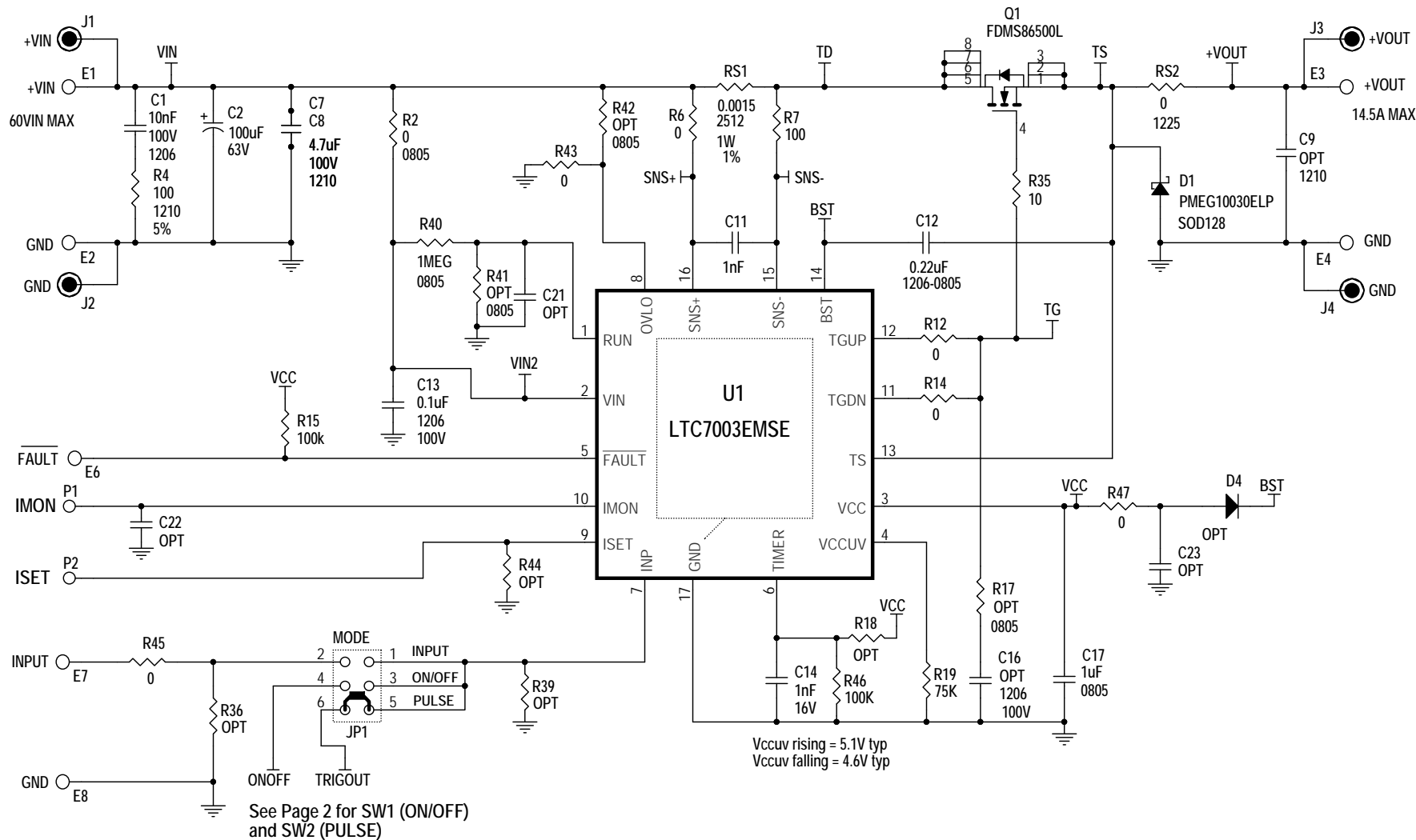


REVISION HISTORY				
ECO	REV	DESCRIPTION	APPROVED	DATE
—	1	PRODUCTION	HT00 K.	10-03-17



Note: OPT = (OPT) = Optional = Not Used

Note: Unless otherwise specified:  
All resistors are in ohms, 1%, 0603.  
All capacitors are in microfarads 0603.  
All capacitors are 25V.  
1/16W = 0402, 1/10W = 0603, 1/8W = 0805,  
1/4W = 1206, 1/2W = 1210, 1W = 2512.

4.7uF 100V Murata GRM32DC72A475ME01 (1210, X7R, -75% at 60V).  
100uF 63V Wurth Electronic 860040775006 (10x12.5mm, 640mA@100KHz@105°C, 0.34Ohm@100KHz)  
5.1V Zener On Semi MMSZ5V1T1.  
0 Ohm 1225 TEPRO RM5326  
100ohm 1210 NIC NRCP25J101TRF (0.5M, 400W for 0.1ms)  
Fairchild FDMS86500L (60, 3.7mOh max and 117nCtyp at 10V)  
0.0015ohms 1W Panasonic ERJ-M1WTF1M5U (2512).

See Page 2 for SW1 (ON/OFF)  
and SW2 (PULSE)

## 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.

## APPROVALS

PCB DES. LT

APP ENG. HT00 K.

SCALE = NONE



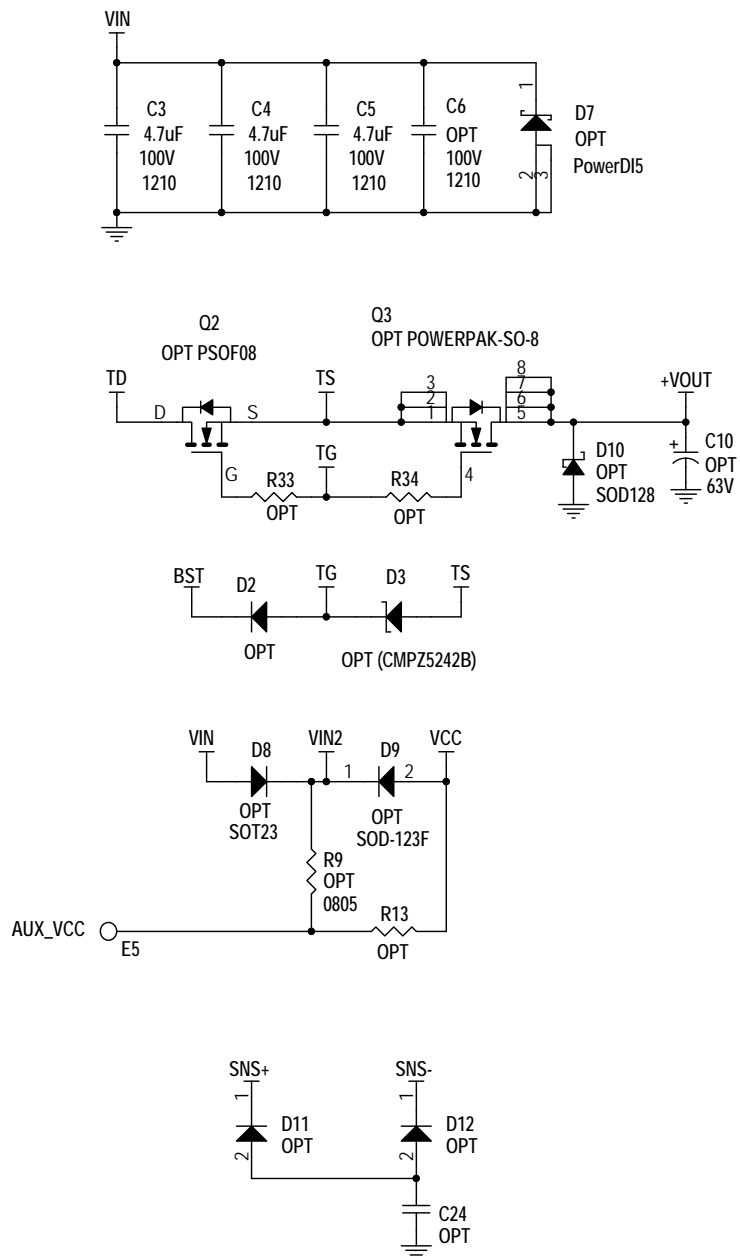
1630 McCarthy Blvd.  
Milpitas, CA 95035  
Phone: (408)432-1900 www.linear.com  
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TITLE: SCHEMATIC

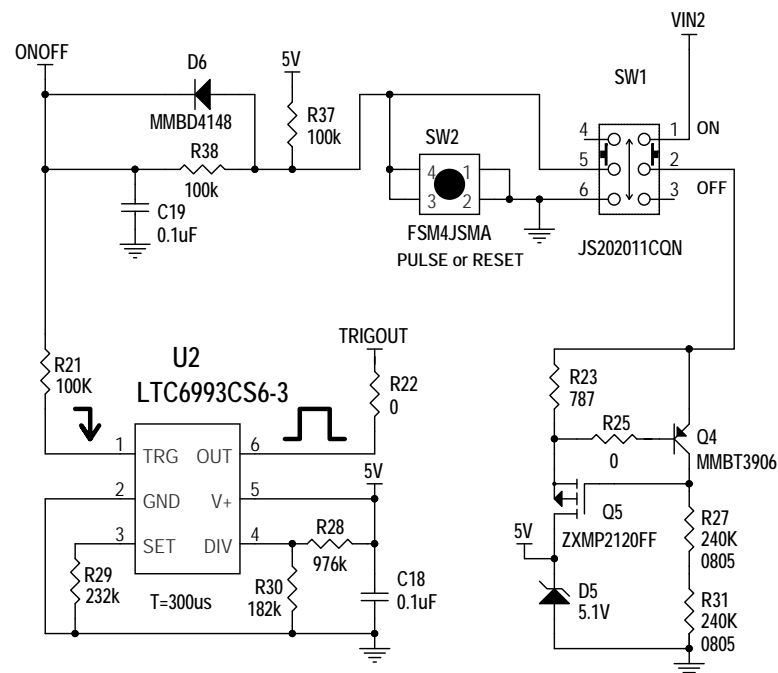
FAST 60V PROTECTED HIGH-SIDE NMOS STATIC SWITCH DRIVER

SIZE N/A IC NO. LTC7003EMSE DC2749A REV. 1

DATE: Friday, October 06, 2017 SHEET 1 OF 2



## OPTIONAL ON/OFF and SINGLE SHOT



## CUSTOMER NOTICE

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THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

## APPROVALS

PCB DES. LT

APP ENG. HT00 K.

SCALE = NONE



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TITLE: SCHEMATIC

FAST 60V PROTECTED HIGH-SIDE NMOS STATIC SWITCH DRIVER

SIZE

N/A

IC NO.

LTC7003EMSE  
DC2749A

REV.

1

DATE: Tuesday, October 03, 2017

SHEET 2 OF 2